

05 - CIVIL

INDEX OF DRAWINGS

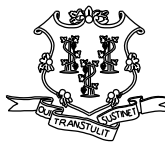

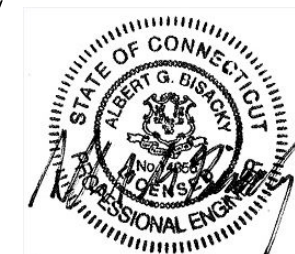
DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
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DESIGNED BY:

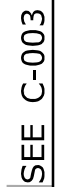


500 ENTERPRISE DRIVE

ROCKY HILL, CT 06067

	-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: <b>SAH</b>	 <b>STATE OF CONNECTICUT</b> <b>DEPARTMENT OF TRANSPORTATION</b>		SIGNATURE/ BLOCK:	 <div>Kleinfelder 500 Enterprise Drive, Suite 4B Rocky Hill, CT 06067</div>	PROJECT TITLE:	<b>REPAIR FACILITY</b>	TOWN:	<b>ROCKY HILL</b>	PROJECT NO.	<b>118-167</b>
	-	-	-	-		CHECKED BY: <b>AGB</b>			DRAWING NO.		<b>C-001</b>					
	-	-	-	-					SHEET NO.				<b>05.01</b>			
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REV.	DATE	REVISION DESCRIPTION			SHEET NO.	Plotted Date: 10/12/2014	Filename: ...\\FD_MSH_CIV_0118_0167_C001.dgn									

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL MEET OR EXCEED THE REQUIREMENTS OF THE D.E.P. 2002 E&S GUIDELINES AND THE 2004 STORMWATER QUALITY MANUAL.
2. REMOVE ALL TEMPORARY SEDIMENTATION CONTROL SYSTEMS ONCE ALL WORK HAS BEEN COMPLETED AND SITE HAS REACHED FINAL STABILIZATION.



**MATCH MARK**

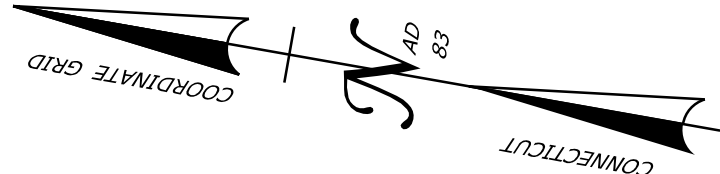
[illegible]



NOTES:

- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL MEET OR EXCEED THE REQUIREMENTS OF THE D.E.P. 2002 E&S GUIDELINES AND THE 2004 STORMWATER QUALITY MANUAL.
- REMOVE ALL TEMPORARY SEDIMENTATION CONTROL SYSTEMS ONCE ALL WORK HAS BEEN COMPLETED AND SITE HAS REACHED FINAL STABILIZATION.

N/F  
BURRIS LOGISTICS



SEE C-002

MATCH MARK

SEE C-004

MATCH MARK

SEDIMENTATION CONTROL SYSTEM (TYP.)

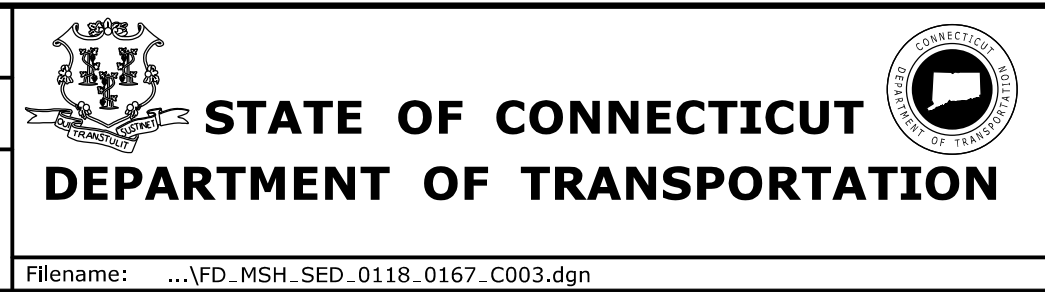
SEDIMENTATION CONTROL SYSTEM (TYP.)

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 10/14/2014

DESIGNER/DRAFTER:  
**SAH**  
CHECKED BY:  
**AGB**  
SCALE IN FEET  
0 40 80  
SCALE 1"=40'






SIGNATURE/  
BLOCK:  
  
Kleinfelder  
500 Enterprise Drive,  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

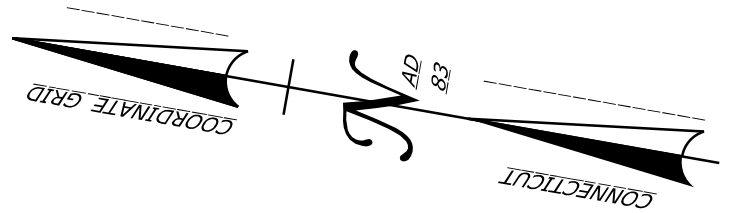
TOWN:  
**ROCKY HILL**  
DRAWING TITLE:  
**EROSION AND SEDIMENT  
POLLUTION CONTROL - 2**

PROJECT NO.  
**118-167**  
DRAWING NO.  
**C-003**  
SHEET NO.  
**05.03**

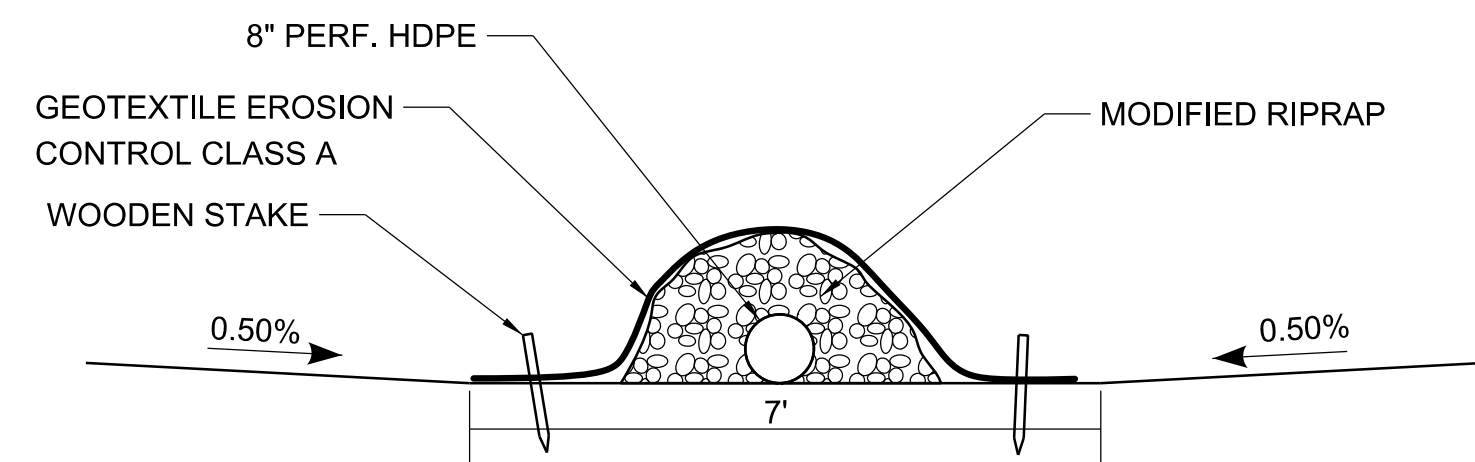
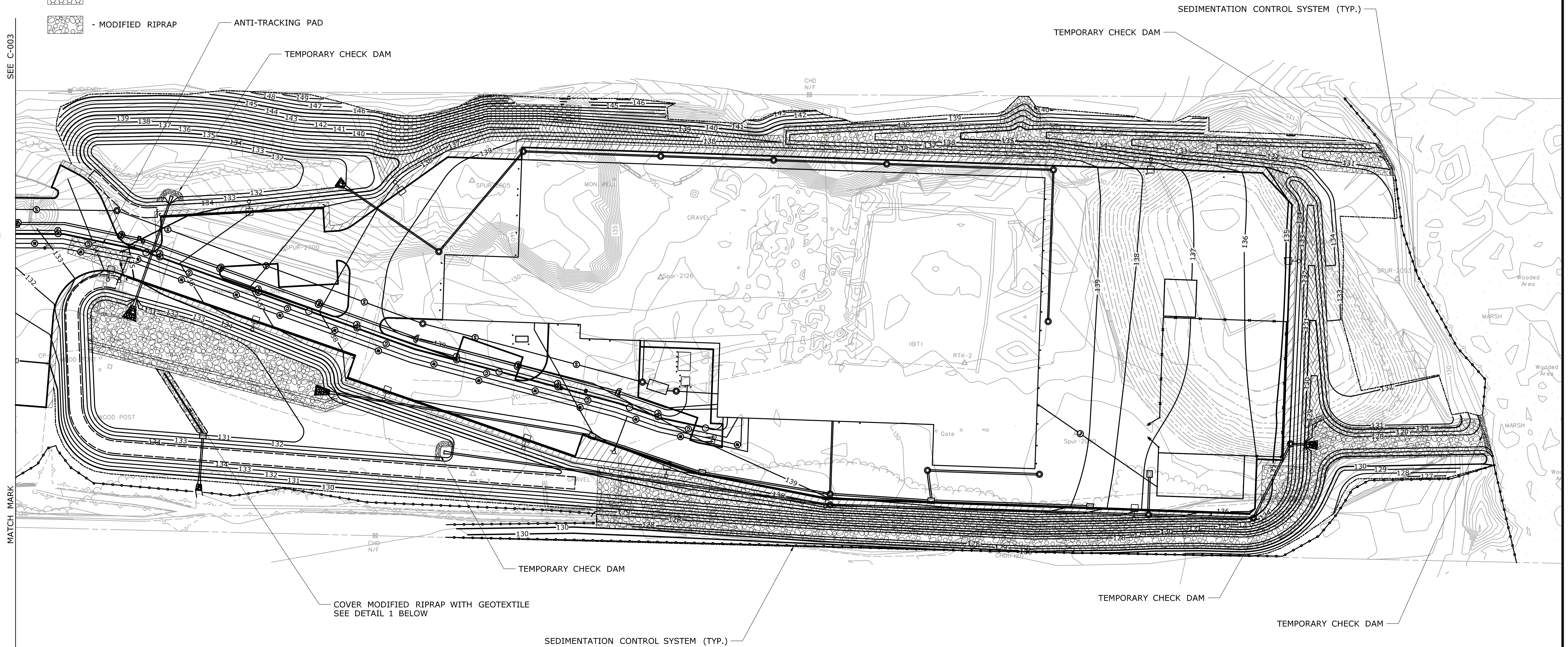


	- EROSION CONTROL MATTING TYPE E (BIO-DEGRADABLE)
	- EROSION CONTROL MATTING TYPE D (BIO-DEGRADABLE)
	- MODIFIED RIPRAP

ANTI-TRACKING PAD



MATCH MARK



**DETAIL 1**  
NOT TO SCALE

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL MEET OR EXCEED THE REQUIREMENTS OF THE D.E.P. 2002 E&S GUIDELINES AND THE 2004 STORMWATER QUALITY MANUAL.
2. REMOVE ALL TEMPORARY SEDIMENTATION CONTROL SYSTEMS AND TEMPORARY CHECK DAM'S ONCE ALL WORK HAS BEEN COMPLETED AND SITE HAS REACHED FINAL STABILIZATION.
3. REMOVE ALL SEDIMENT BUILD UP FROM DRAINAGE SYSTEMS AND DETENTION BASINS ONCE THE SITE HAS REACHED FINAL STABILIZATION.
4. REMOVE GEOTEXTILE EROSION CONTROL CLASS A FROM THE MODIFIED RIPRAP BERM IN DETENTION BASIN #1 ONCE THE BASIN HAS REACHED PERMANENT STABILIZATION.

[illegible]

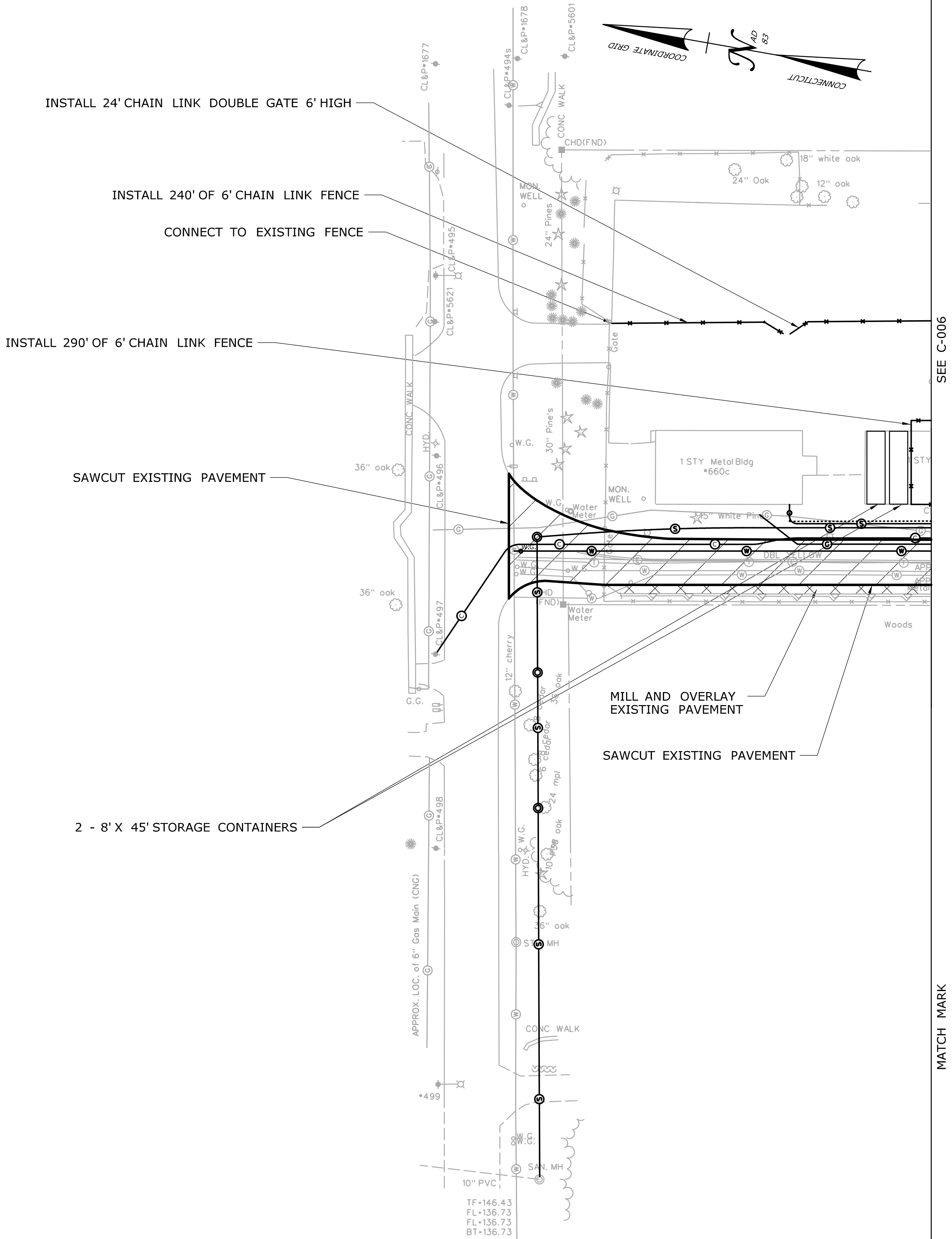


NOTES:

- CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 AT LEAST TWO FULL BUSINESS DAYS BEFORE BEGINNING ANY EXCAVATION.
- THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES AND SURVEY MARKERS WITHIN THE PROJECT LIMITS. REFER TO FORM 816, SECTION 1.07.09.
- ESTABLISH TURF IN ALL UNPAVED DISTURBED AREAS.

LEGEND

- FULL-DEPTH BITUMINOUS CONCRETE PAVEMENT  
REFER TO DRAWING C-022
- 2" MILL AND OVERLAY OF BITUMINOUS CONCRETE PAVEMENT  
REFER TO DRAWING C-022



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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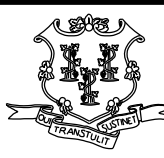
DESIGNER/DRAFTER:  
**SAH**

CHECKED BY:  
**AGB**

SCALE IN FEET

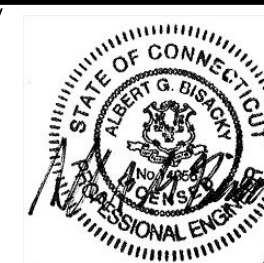
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SCALE 1"=40'

 **STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**

Filename: ...\\FD\_MSH\_CIV\_0118\_0167\_C005.dgn

SIGNATURE/  
BLOCK:

 Kleinfelder  
500 Enterprise Drive,  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:

**REPAIR FACILITY**

TOWN:

**ROCKY HILL**

DRAWING TITLE:

**SITE PLAN - 1**

PROJECT NO.

**118-167**

DRAWING NO.

**C-005**

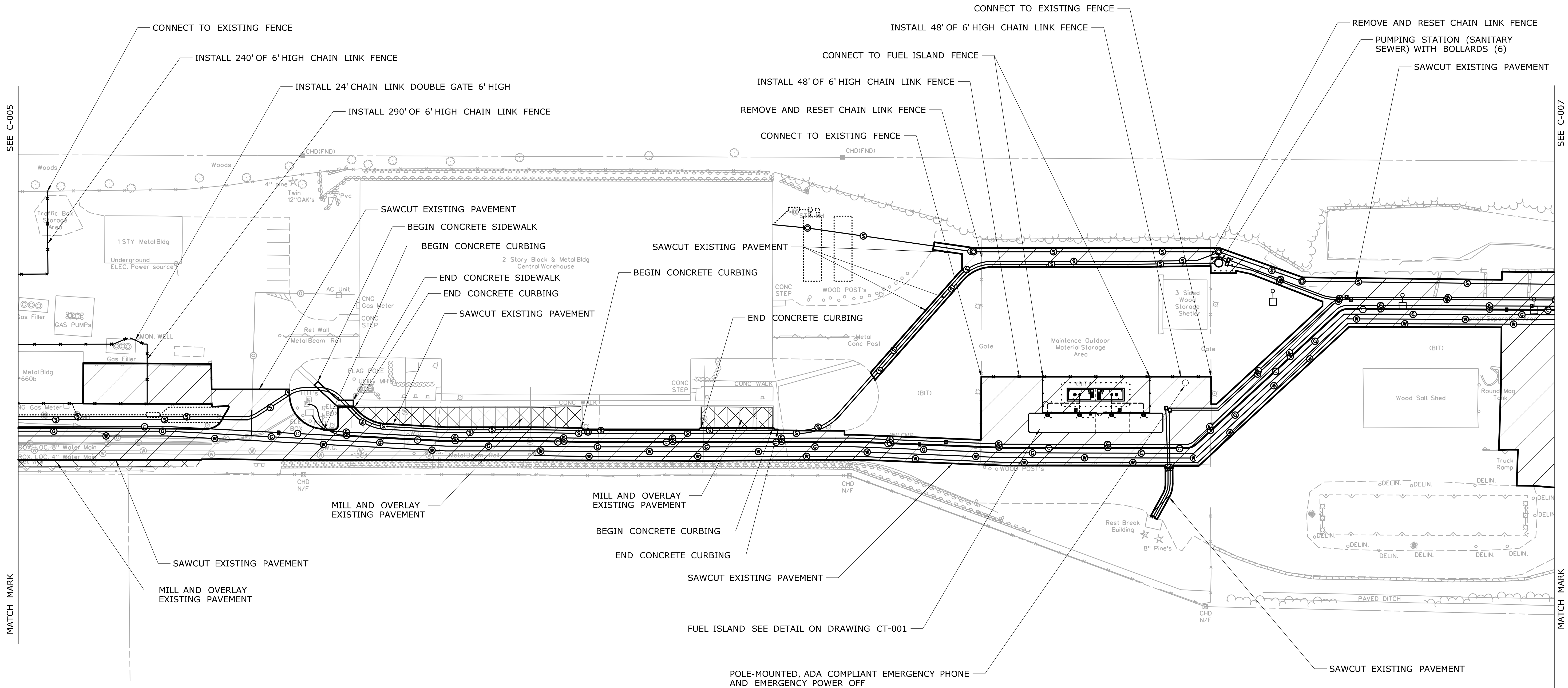
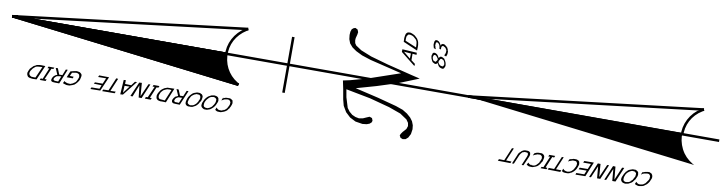
SHEET NO.

**05.05**



NOTES:

1. CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 AT LEAST TWO FULL BUSINESS DAYS BEFORE BEGINNING ANY EXCAVATION.
2. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES AND SURVEY MARKERS WITHIN THE PROJECT LIMITS. REFER TO FORM 816, SECTION 1.07.09.
3. ESTABLISH TURF IN ALL UNPAVED DISTURBED AREAS.



LEGEND


- FULL-DEPTH BITUMINOUS CONCRETE PAVEMENT  
REFER TO DRAWING C-022
- 2" MILL AND OVERLAY OF BITUMINOUS CONCRETE PAVEMENT  
REFER TO DRAWING C-022

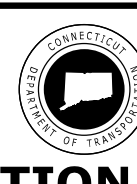
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Plotted Date: 10/14/2014

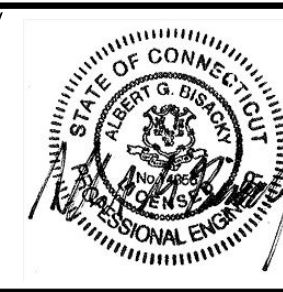
DESIGNER/DRAFTER: <b>SAH</b>
CHECKED BY: <b>AGB</b>
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**STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**



Filename: ...\\FD\_MSH\_CIV\_0118\_0167\_C006.dgn

SIGNATURE/  
BLOCK:



Kleinfelder  
500 Enterprise Drive,  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:

**REPAIR FACILITY**

TOWN:

**ROCKY HILL**

DRAWING TITLE:

**SITE PLAN - 2**

PROJECT NO.

**118-167**

DRAWING NO.

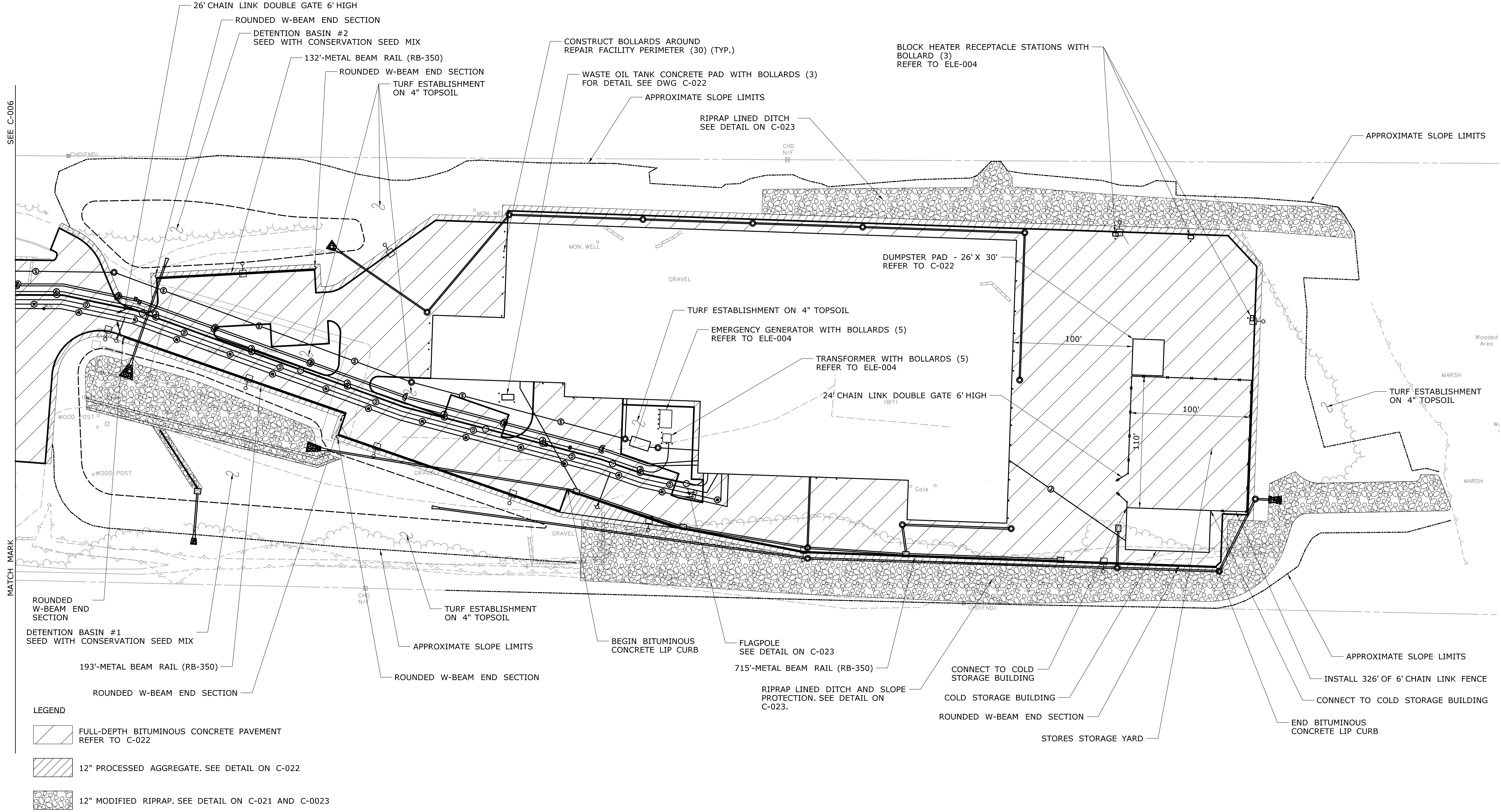
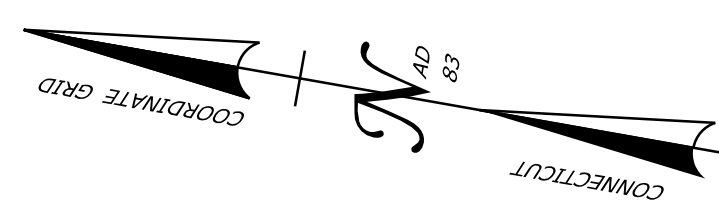
**C-006**

SHEET NO.

**05.06**



- NOTES:
1. CONTACT "CALL BEFORE YOU DIG" AT 1-800-922-4455 AT LEAST TWO FULL BUSINESS DAYS BEFORE BEGINNING ANY EXCAVATION.
  2. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING UTILITIES AND SURVEY MARKERS WITHIN THE PROJECT LIMITS. REFER TO FORM 816, SECTION 1.07.09.
  3. ESTABLISH TURF IN ALL UNPAVED DISTURBED AREAS.



- LEGEND
- FULL-DEPTH BITUMINOUS CONCRETE PAVEMENT  
REFER TO C-022
  - 
  -

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 10/15/2014

DESIGNER/DRAFTER:  
**SAH**

CHECKED BY:  
**AGB**

SCALE IN FEET  
0 40 80  
SCALE 1"=40'

**STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**

Filename: ...\\FD\_MSH\_CIV\_0118\_0167\_C007.dgn

SIGNATURE/  
BLOCK:

Kleinfelder  
500 Enterprise Drive,  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

TOWN:  
**ROCKY HILL**

DRAWING TITLE:  
**SITE PLAN - 3**

PROJECT NO.  
**118-167**

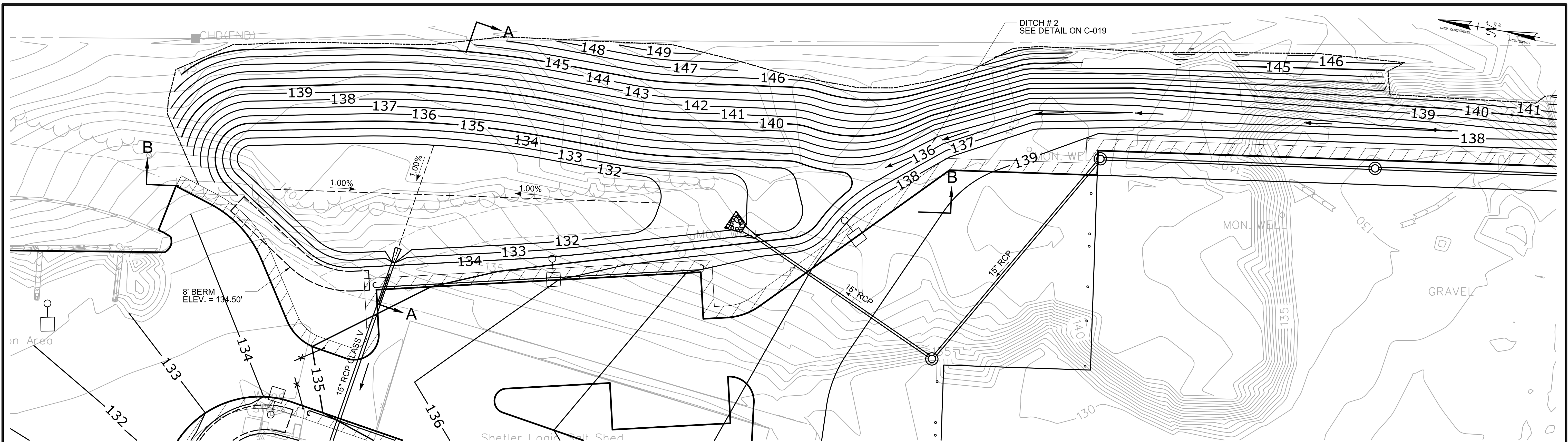
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**C-007**

SHEET NO.  
**05.07**



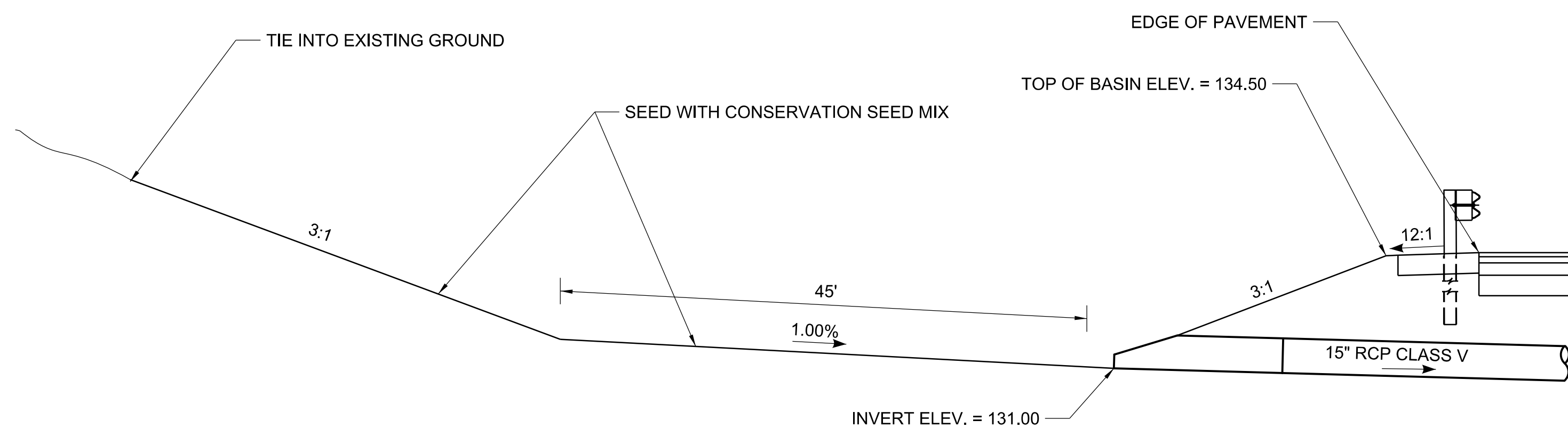




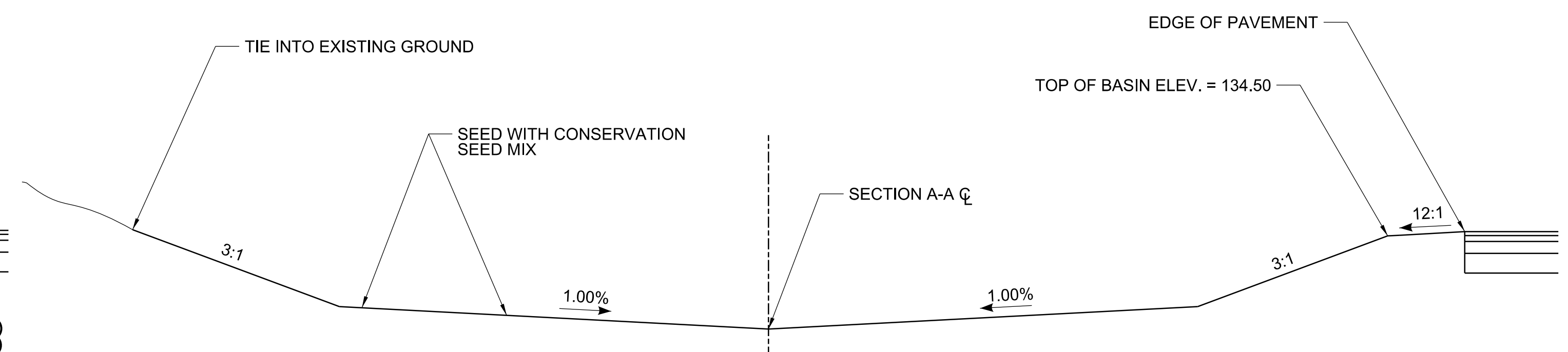


**DETENTION BASIN #2 DETAIL**

SCALE: 1"=20'



**SECTION A-A**  
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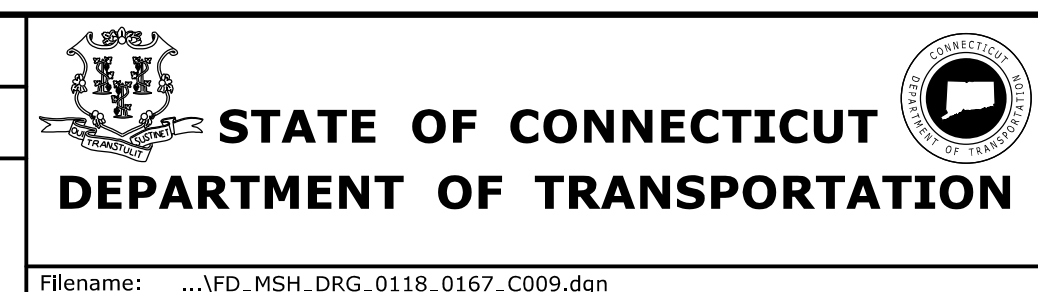


**SECTION B-B**  
NOT TO SCALE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER:  
**SAH**  
CHECKED BY:  
**AGB**  
SCALE AS NOTED



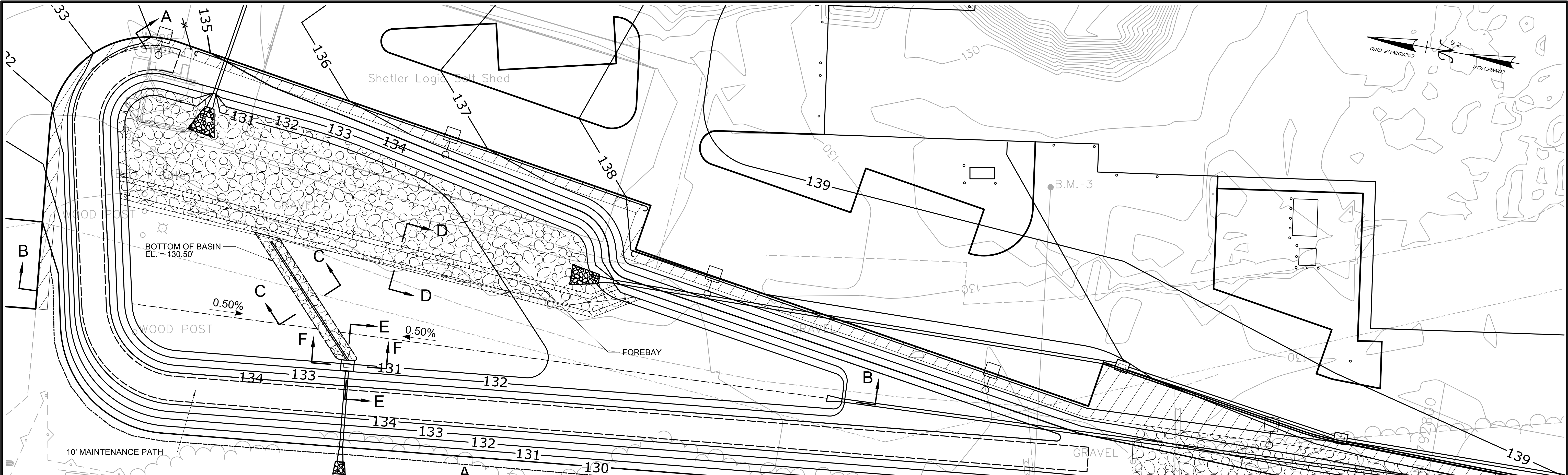
SIGNATURE/  
BLOCK:  
  
Kleinfelder  
500 Enterprise Drive,  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

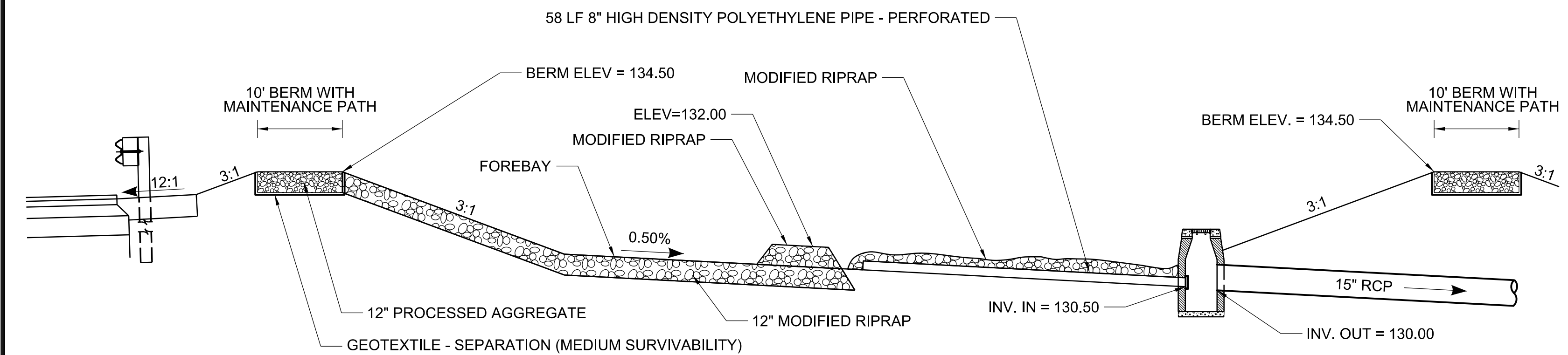
TOWN:  
**ROCKY HILL**  
DRAWING TITLE:  
**DETENTION BASIN  
DETAIL - 1**

PROJECT NO.  
**118-167**  
DRAWING NO.  
**C-009**  
SHEET NO.  
**05.09**

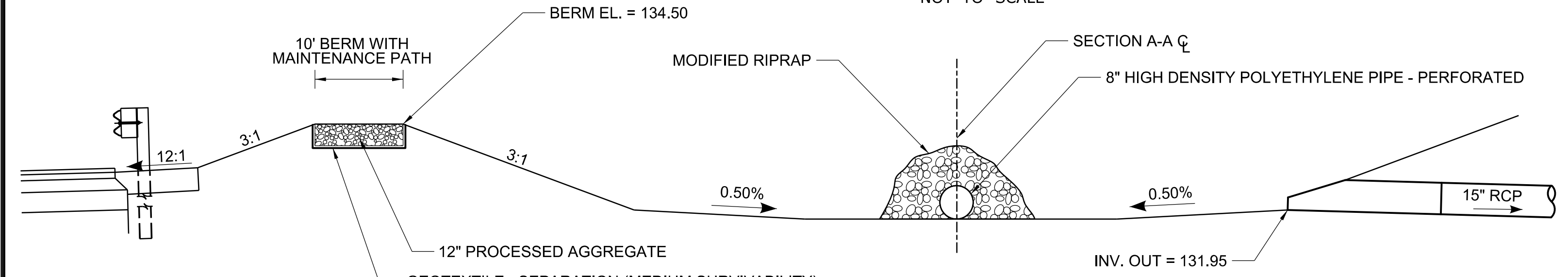




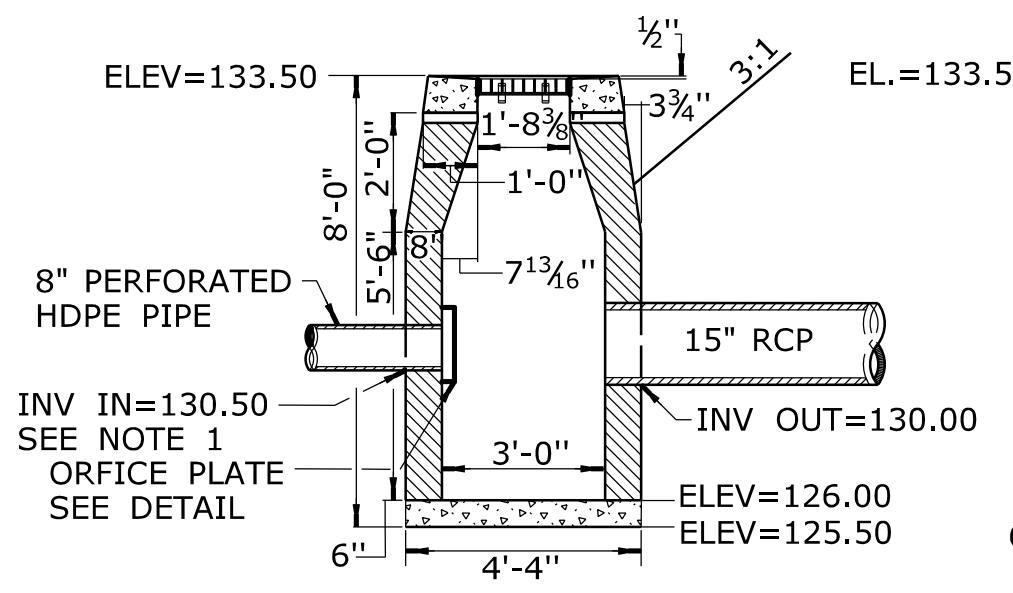
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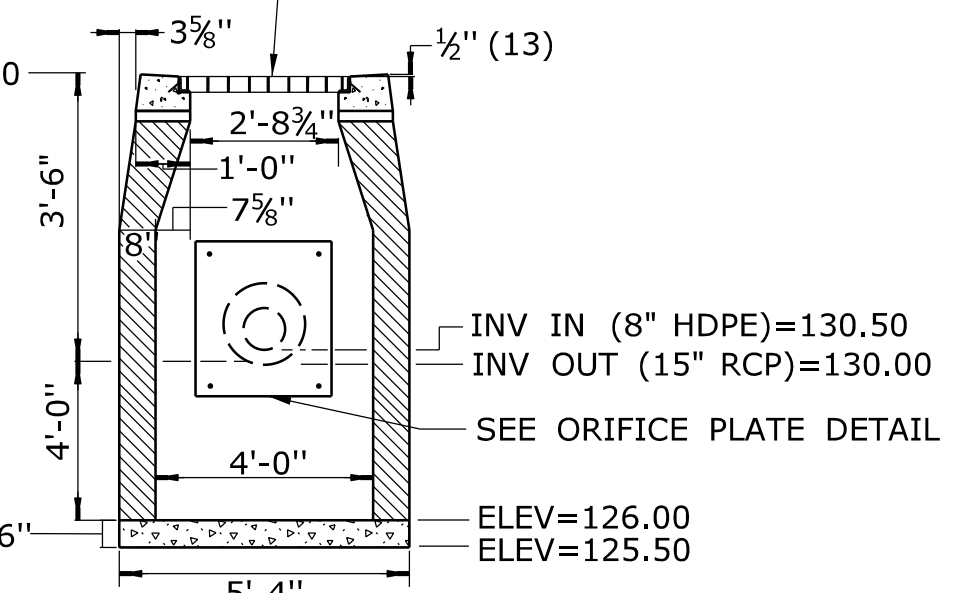
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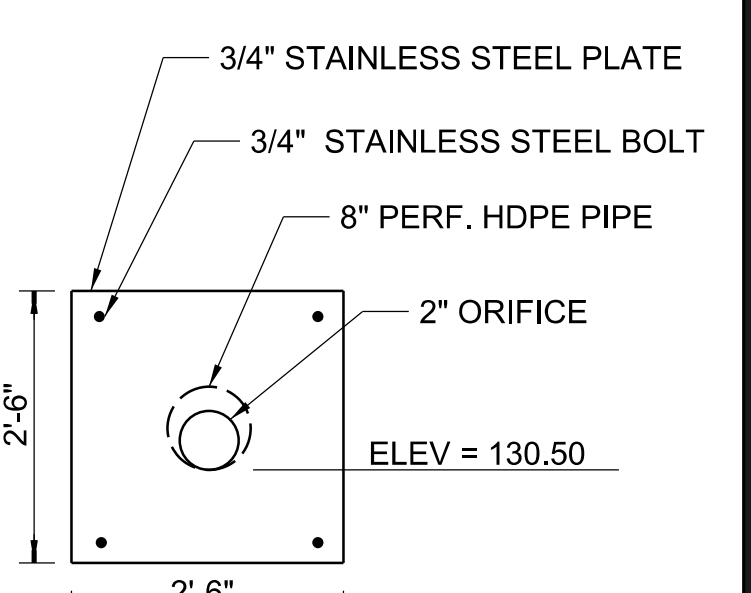
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NOT TO SCALE



**SECTION E-E**  
NOT TO SCALE

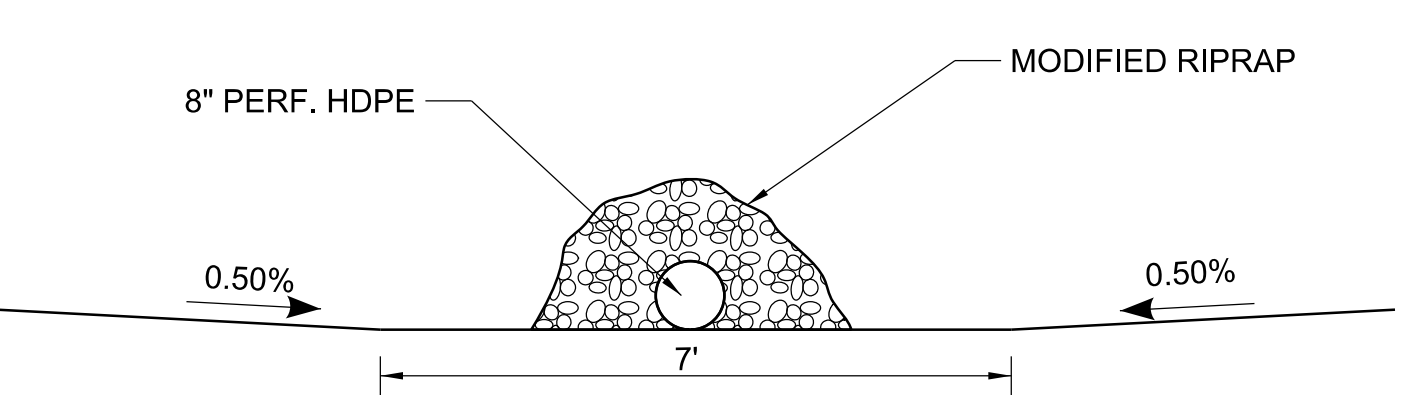


**SECTION F-F**  
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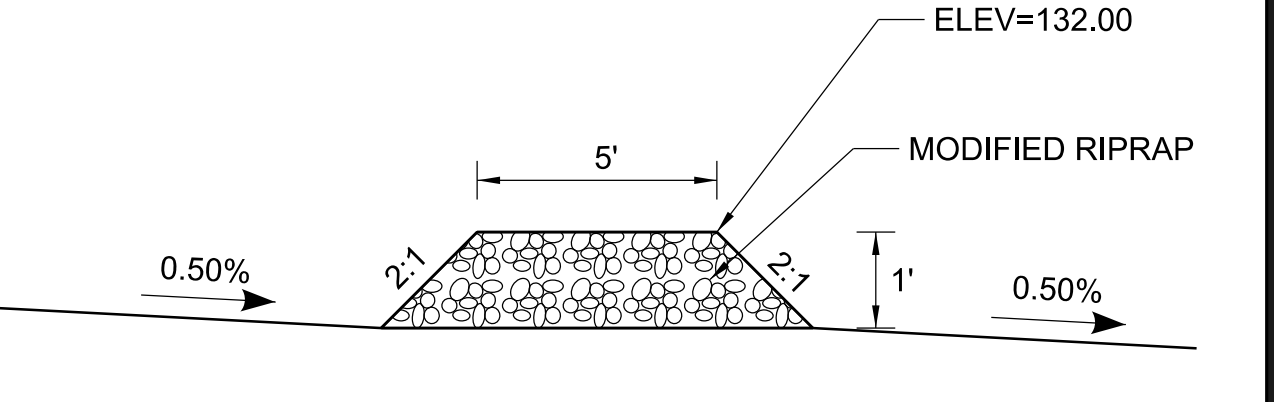


**ORIFICE PLATE**  
NOT TO SCALE

- NOTES:
1. GROUT 8" HIGH DENSITY POLYETHYLENE PIPE - PERFORATED INTO CATCH BASIN WITH WATERTIGHT SEAL
  2. ENSURE A WATERTIGHT SEAL BETWEEN CATCH BASIN WALL AND ORIFICE PLATE



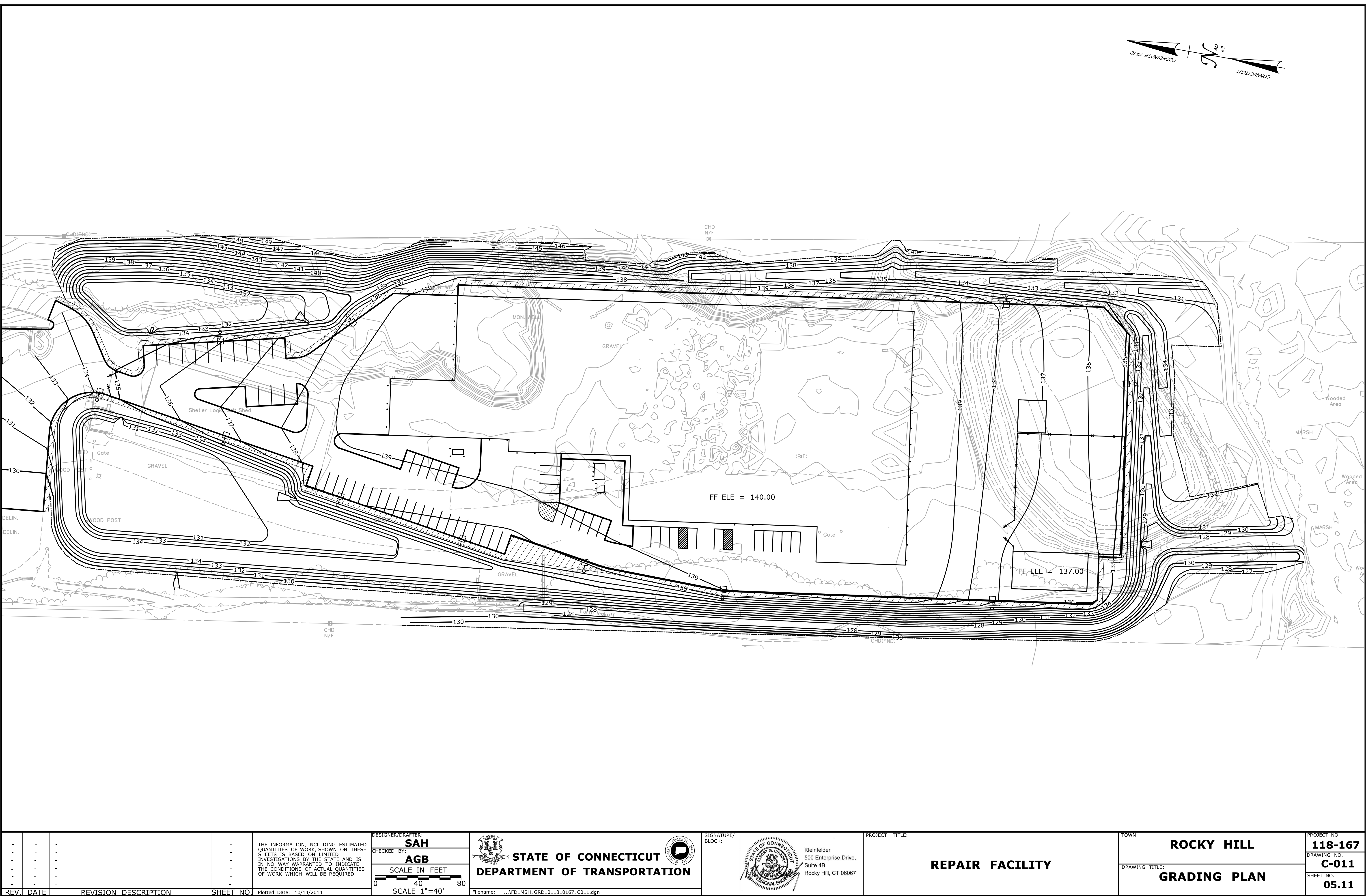
**SECTION C-C**  
NOT TO SCALE



**SECTION D-D**  
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

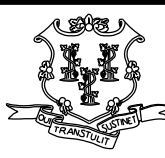
DESIGNER/DRAFTER:  
**SAH**

CHECKED BY:  
**AGB**

SCALE IN FEET

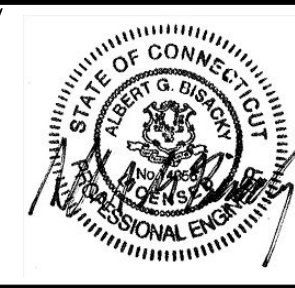
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SCALE 1"=40'

 **STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**

Filename: ...\\FD\_MSH\_GRD\_0118\_0167\_C011.dgn

SIGNATURE/  
BLOCK:

 Kleinfelder  
500 Enterprise Drive,  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:

**REPAIR FACILITY**

TOWN:

**ROCKY HILL**

DRAWING TITLE:

**GRADING PLAN**

PROJECT NO.

**118-167**

DRAWING NO.

**C-011**

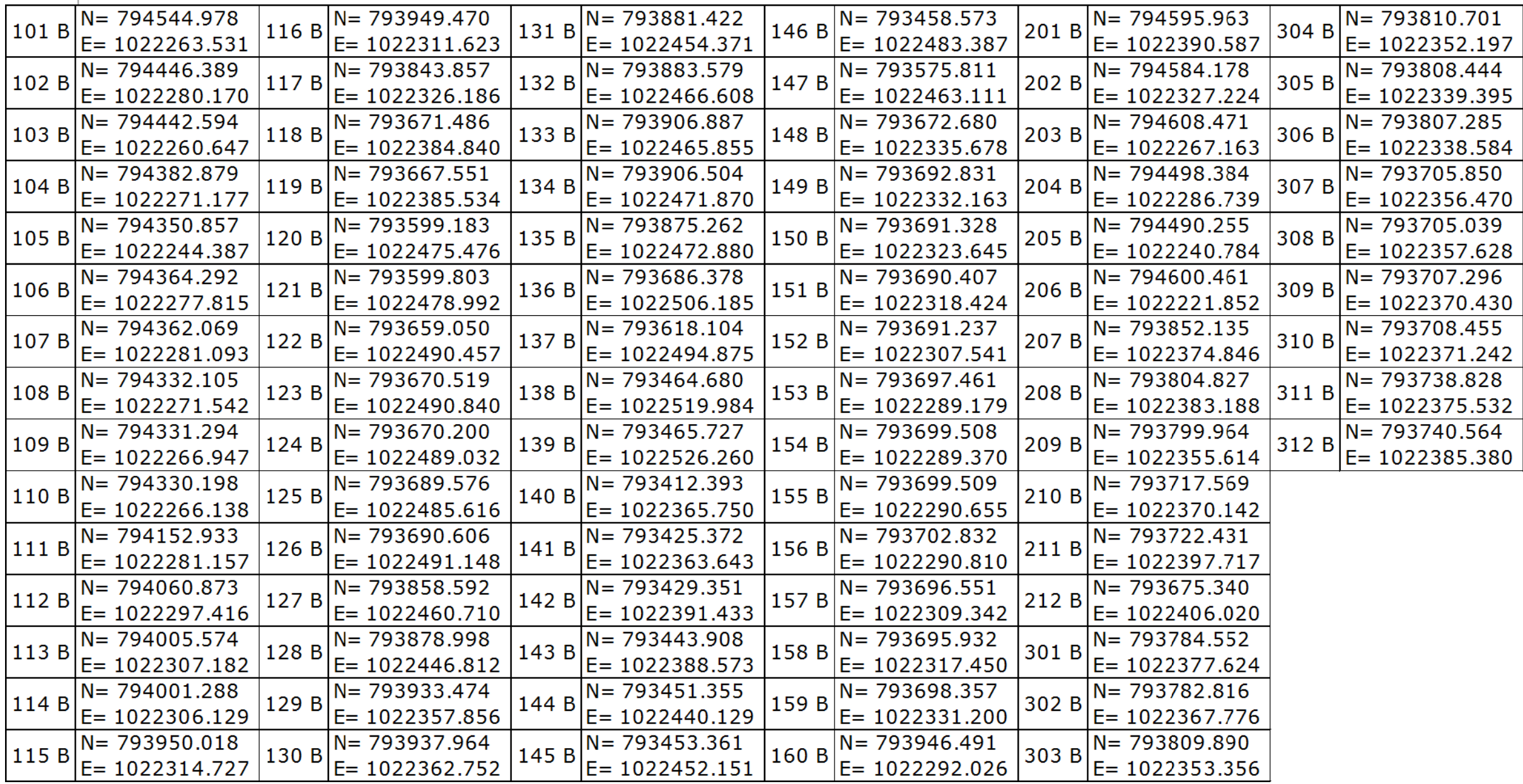
SHEET NO.




**05.11**









-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: <b>CIH</b>	 <b>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</b>	SIGNATURE/ BLOCK:	 Kleinfelder 500 Enterprise Drive, Suite 4B Rocky Hill, CT 06067	PROJECT TITLE:	TOWN:	PROJECT NO. <b>118-167</b>	
-	-	-	-		CHECKED BY: <b>AGB</b>						DRAWING TITLE:	DRAWING NO. <b>C-013</b>
-	-	-	-		SCALE IN FEET							SHEET NO. <b>05.13</b>
-	-	-	-									
-	-	-	-		SCALE 1" = 40'							
-	-	-	-				Filename: ...FD_MSH_GOM_0118_0167_C013.dgn					



MATCH MARK



101 C	N= 793371.491 E= 1022369.716	114 C	N= 792391.060 E= 1022459.165	127 C	N= 793302.620 E= 1022520.513	202 C	N= 793247.485 E= 1022497.726	215 C	N= 792997.544 E= 1022476.930	228 C	N= 792847.096 E= 1022515.115	313 C	N= 792406.826 E= 1022499.945	405 C	N= 793041.127 E= 1022390.071	418 C	N= 792371.796 E= 1022515.864
102 C	N= 793378.663 E= 1022443.686	115 C	N= 792396.587 E= 1022498.915	128 C	N= 793313.941 E= 1022508.372	203 C	N= 793156.057 E= 1022483.080	216 C	N= 793000.548 E= 1022458.173	301 C	N= 793015.309 E= 1022556.196	314 C	N= 792377.120 E= 1022504.132	406 C	N= 792931.106 E= 1022422.739	419 C	N= 792360.661 E= 1022517.327
103 C	N= 793332.523 E= 1022487.043	116 C	N= 792375.787 E= 1022501.807	129 C	N= 793326.638 E= 1022510.406	204 C	N= 793144.553 E= 1022494.194	217 C	N= 792977.963 E= 1022480.733	302 C	N= 793074.400 E= 1022547.867	315 C	N= 792392.255 E= 1022612.991	407 C	N= 792838.073 E= 1022409.201	420 C	N= 792582.736 E= 1022579.552
104 C	N= 793131.714 E= 1022454.875	117 C	N= 792404.360 E= 1022470.319	130 C	N= 793340.300 E= 1022519.343	205 C	N= 793147.712 E= 1022519.496	218 C	N= 792981.710 E= 1022507.681	303 C	N= 792956.136 E= 1022511.285	316 C	N= 792465.600 E= 1022603.705	408 C	N= 792831.799 E= 1022447.407	421 C	N= 792599.920 E= 1022701.463
105 C	N= 793134.719 E= 1022436.114	118 C	N= 792432.453 E= 1022728.512	131 C	N= 793348.121 E= 1022531.515	206 C	N= 793159.902 E= 1022527.997	219 C	N= 792906.022 E= 1022506.809	304 C	N= 792954.541 E= 1022499.970	317 C	N= 792469.731 E= 1022633.419	409 C	N= 792731.171 E= 1022402.222	422 C	N= 792733.927 E= 1022682.608
106 C	N= 792941.680 E= 1022405.191	119 C	N= 793027.770 E= 1022644.600	132 C	N= 793354.843 E= 1022541.977	207 C	N= 793155.595 E= 1022509.491	220 C	N= 792899.688 E= 1022461.254	305 C	N= 792842.178 E= 1022515.808	318 C	N= 792495.483 E= 1022629.839	410 C	N= 792732.707 E= 1022410.906	423 C	N= 792824.858 E= 1022669.816
107 C	N= 792938.675 E= 1022423.951	120 C	N= 793026.372 E= 1022634.687	133 C	N= 793378.978 E= 1022560.509	208 C	N= 793202.346 E= 1022498.611	221 C	N= 792849.330 E= 1022453.188	306 C	N= 792833.791 E= 1022456.496	319 C	N= 792491.352 E= 1022600.125	411 C	N= 792650.920 E= 1022419.000	424 C	N= 792915.657 E= 1022657.038
108 C	N= 792854.653 E= 1022410.492	121 C	N= 793085.685 E= 1022626.313	134 C	N= 793394.189 E= 1022565.378	209 C	N= 793206.653 E= 1022517.116	222 C	N= 792852.336 E= 1022434.427	307 C	N= 792659.671 E= 1022481.039	320 C	N= 792491.276 E= 1022599.034	412 C	N= 792658.178 E= 1022443.567	425 C	N= 793026.245 E= 1022641.478
109 C	N= 792840.737 E= 1022409.251	122 C	N= 793152.259 E= 1022558.436	135 C	N= 793398.084 E= 1022546.403	210 C	N= 793067.040 E= 1022495.653	223 C	N= 792846.294 E= 1022433.459	308 C	N= 792655.065 E= 1022448.362	321 C	N= 792476.141 E= 1022490.175	413 C	N= 792568.167 E= 1022456.193	426 C	N= 793079.549 E= 1022549.462
110 C	N= 792736.231 E= 1022407.264	123 C	N= 793164.454 E= 1022551.579	136 C	N= 793396.010 E= 1022545.977	211 C	N= 793110.127 E= 1022489.587	224 C	N= 792844.902 E= 1022433.335	309 C	N= 792572.550 E= 1022459.992	401 C	N= 793314.857 E= 1022468.913	414 C	N= 792523.102 E= 1022436.770	427 C	N= 793158.529 E= 1022585.837
111 C	N= 792734.663 E= 1022407.357	124 C	N= 793173.815 E= 1022549.400	137 C	N= 793392.773 E= 1022544.734	212 C	N= 793110.259 E= 1022475.744	225 C	N= 792825.679 E= 1022432.969	310 C	N= 792605.536 E= 1022694.005	402 C	N= 793242.214 E= 1022369.024	415 C	N= 792475.345 E= 1022439.179	428 C	N= 793301.852 E= 1022550.101
112 C	N= 792701.061 E= 1022412.029	125 C	N= 793178.122 E= 1022567.906	138 C	N= 793394.070 E= 1022538.027	213 C	N= 793050.907 E= 1022466.236	226 C	N= 792828.348 E= 1022451.907	311 C	N= 792471.321 E= 1022455.508	403 C	N= 793238.982 E= 1022335.846	416 C	N= 792480.164 E= 1022471.947		
113 C	N= 792349.470 E= 1022454.653	126 C	N= 793306.686 E= 1022537.984	201 C	N= 793247.827 E= 1022507.533	214 C	N= 793047.902 E= 1022484.997	227 C	N= 792838.118 E= 1022450.530	312 C	N= 792402.006 E= 1022465.279	404 C	N= 793141.162 E= 1022421.663	417 C	N= 792391.016 E= 1022451.357		

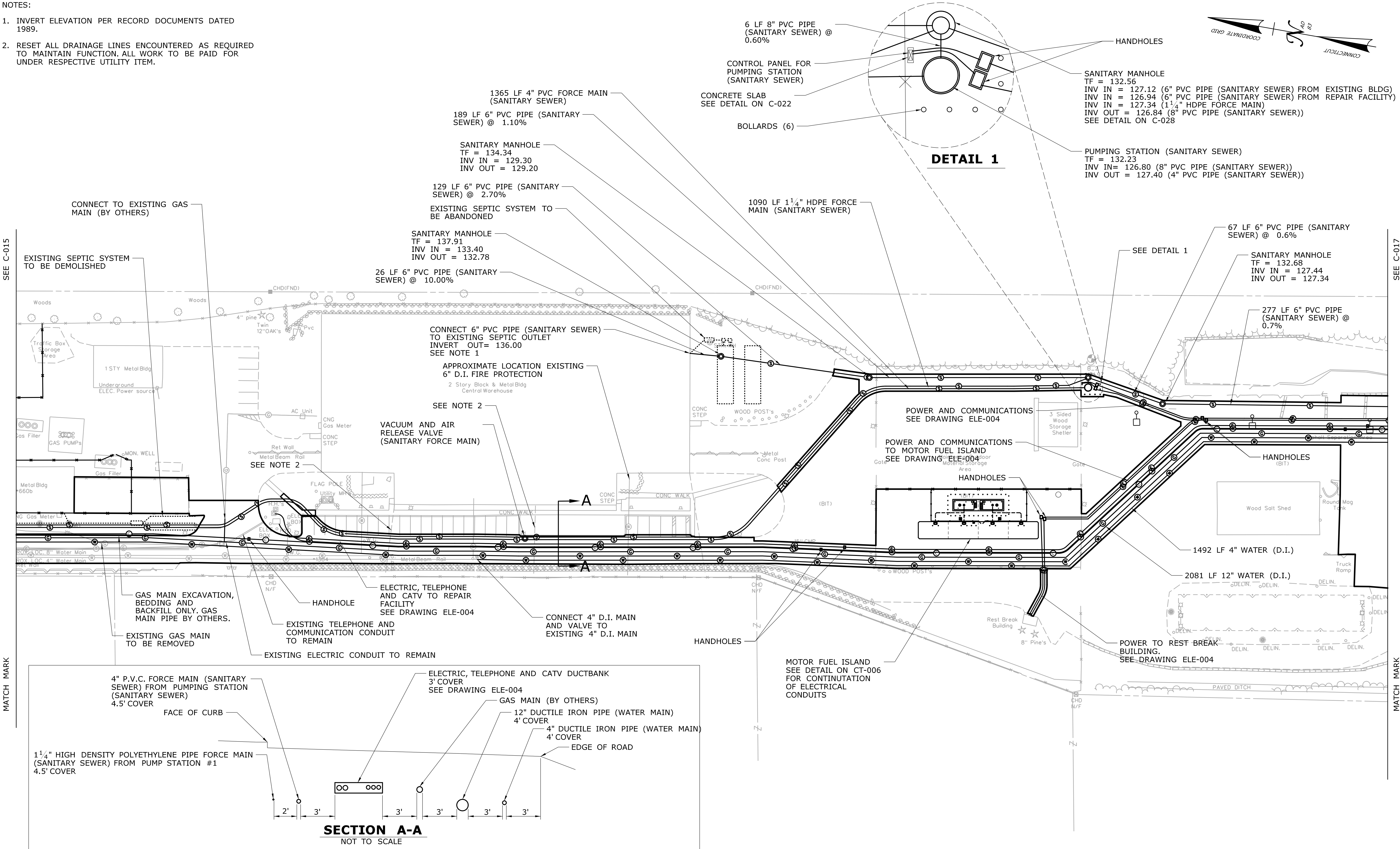
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- NOTES:
1. INVERT ELEVATION PER RECORD DOCUMENTS DATED 1989.
  2. RESET ALL DRAINAGE LINES ENCOUNTERED AS REQUIRED TO MAINTAIN FUNCTION. ALL WORK TO BE PAID FOR UNDER RESPECTIVE UTILITY ITEM.




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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 10/14/2014

DESIGNER/DRAFTER:	CIH
CHECKED BY:	AGB
SCALE IN FEET	0 40 80
SCALE	1"=40'

**STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**

Signature/Block:  
  
Kleinfelder  
500 Enterprise Drive,  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

Signature/Block:  
  
Kleinfelder  
500 Enterprise Drive,  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

PROJECT TITLE:  
**REPAIR FACILITY**

PROJECT NO.  
**118-167**

DRAWING NO.  
**C-016**

SHEET NO.  
**05.16**

TOWN:  
**ROCKY HILL**

DRAWING TITLE:  
**UTILITY PLAN - 2**

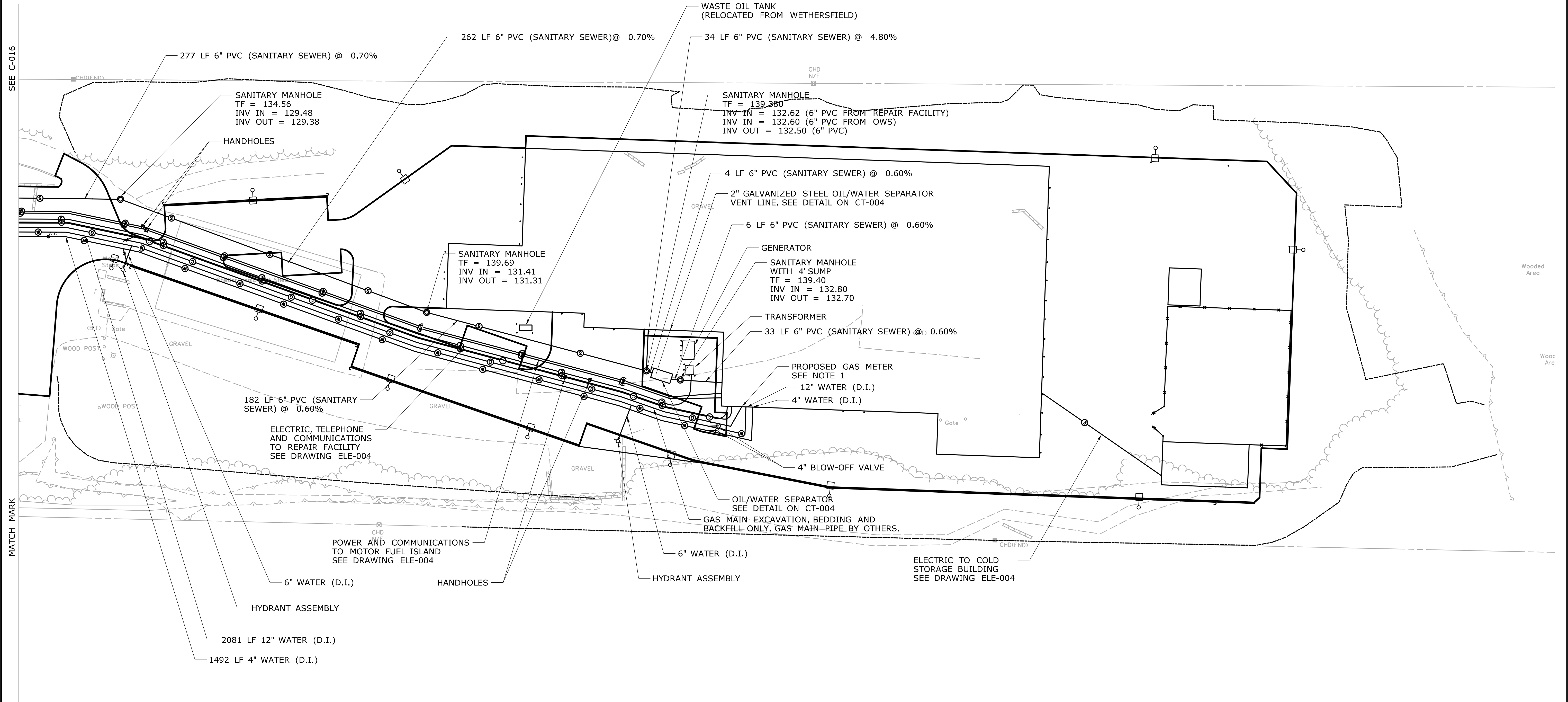
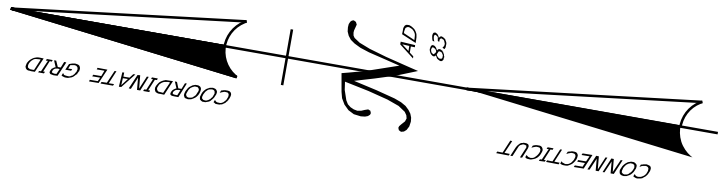
PROJECT NO.  
**118-167**

DRAWING NO.  
**C-016**

SHEET NO.  
**05.16**



NOTE:  
1. GAS METER LOCATION TO BE CONFIRMED UPON  
DETERMINATION OF METER SIZE REQUIREMENTS



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 10/14/2014

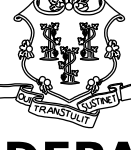
DESIGNER/DRAFTER:  
**CIH**

CHECKED BY:  
**AGB**

SCALE IN FEET

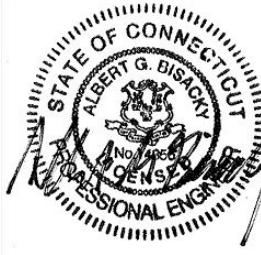
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SCALE 1"=40'

 **STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**

Filename: ...\\FD\_MSH\_UTL\_0118\_0167\_C017.dgn

SIGNATURE/  
BLOCK:

 Kleinfelder  
500 Enterprise Drive,  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:

**REPAIR FACILITY**

TOWN:

**ROCKY HILL**

DRAWING TITLE:

**UTILITY PLAN - 3**

PROJECT NO.

**118-167**

DRAWING NO.

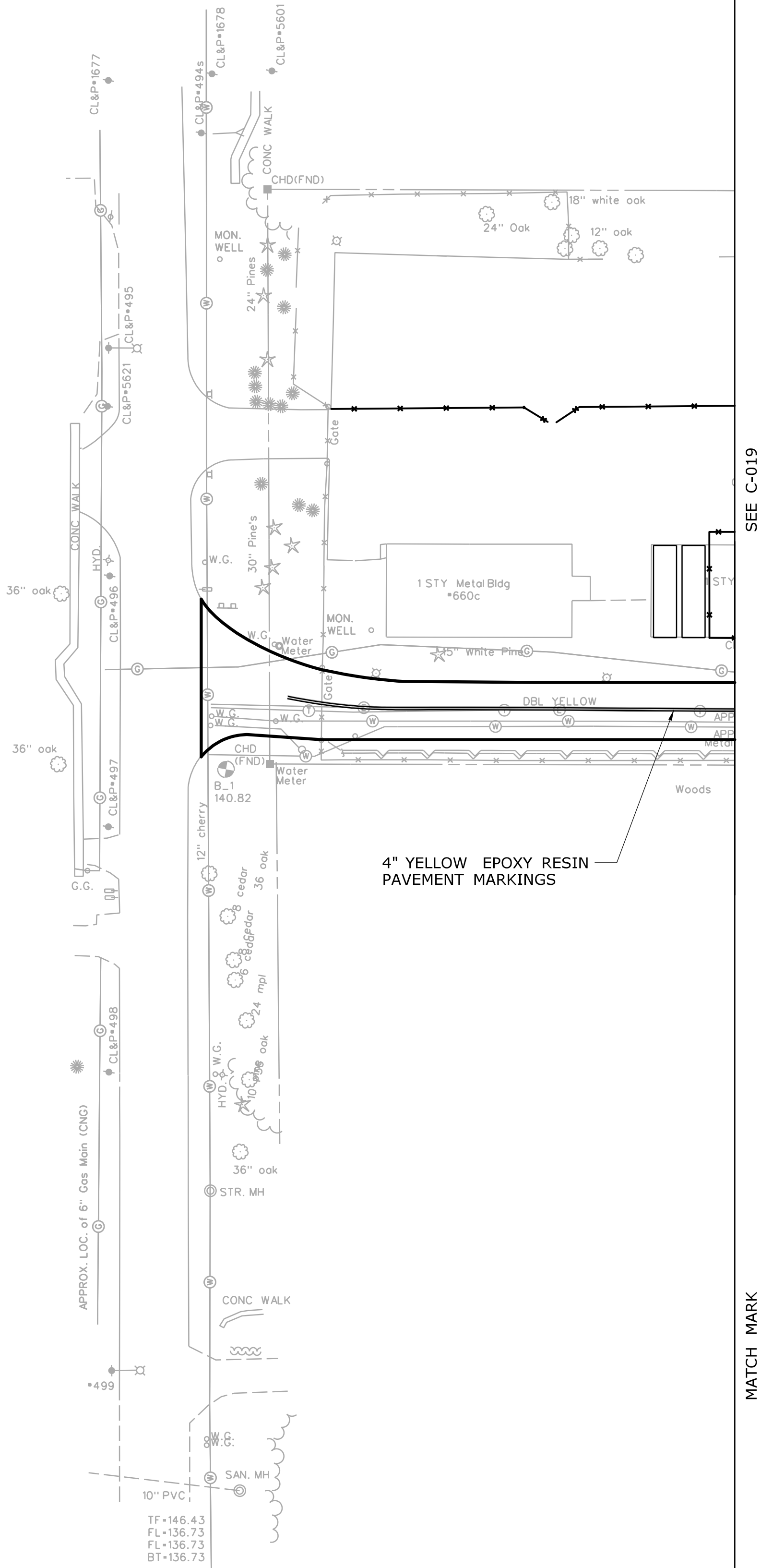
**C-017**

SHEET NO.

**05.17**



- NOTE:
- UPON COMPLETION OF THE WORK, EXISTING PAVEMENT MARKINGS SHALL BE REESTABLISHED AS DIRECTED BY THE ENGINEER



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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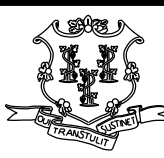
THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 10/12/2014

DESIGNER/DRAFTER:  
**CIH**


CHECKED BY:  
**AGB**

SCALE IN FEET  
0 40 80  
SCALE 1"=40'

**STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**

Filename: ...\\FD\_MSH\_PMP\_0118\_0167\_C018.dgn

SIGNATURE/  
BLOCK:

**Albert G. Kleinfelder**  
500 Enterprise Drive,  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:

**REPAIR FACILITY**

TOWN:  
**ROCKY HILL**

DRAWING TITLE:  
**PAVEMENT MARKING PLAN - 1**

PROJECT NO.  
**118-167**

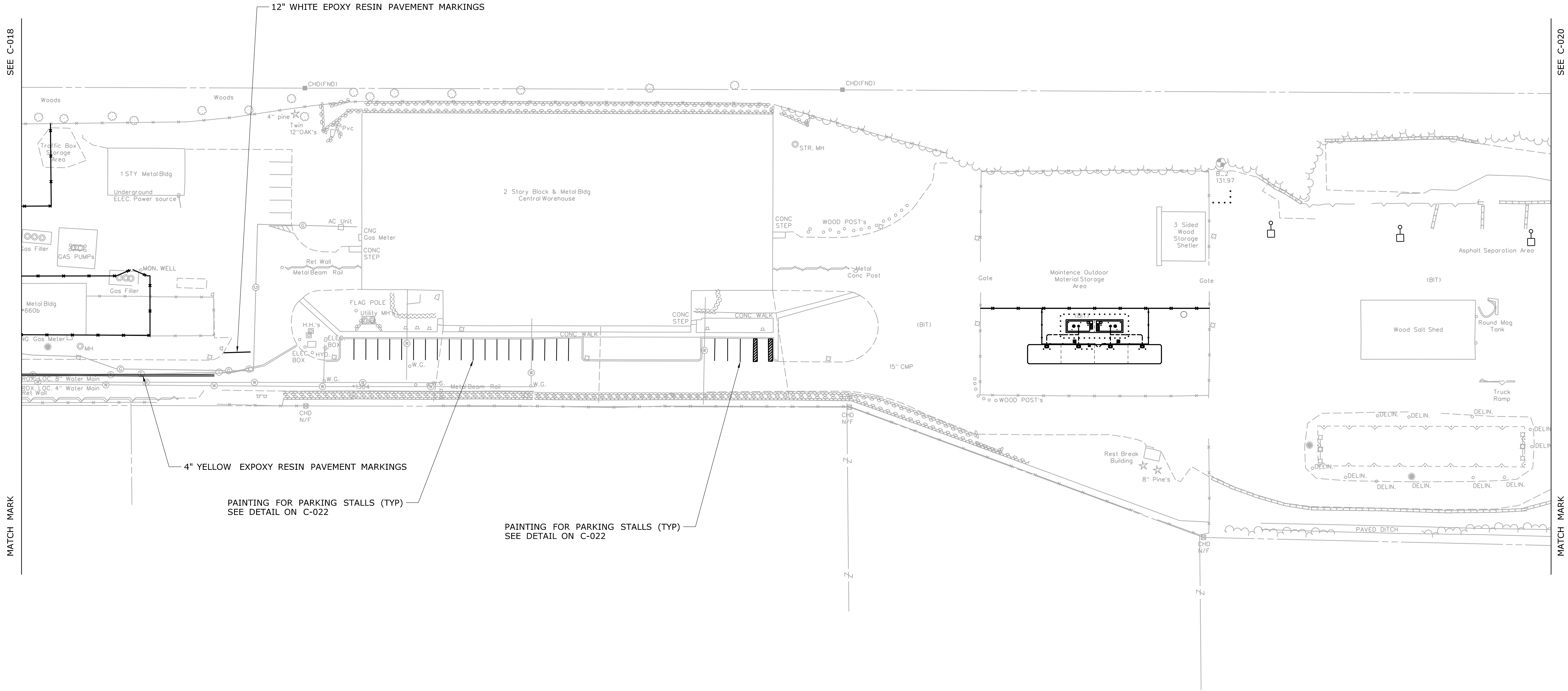
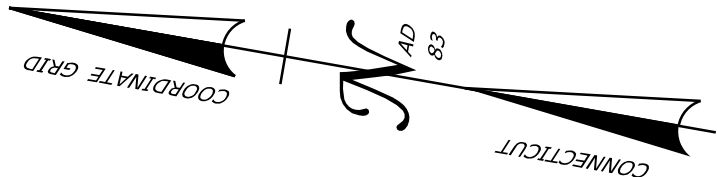
DRAWING NO.  
**C-018**

SHEET NO.  
**05.18**



NOTE:

1. UPON COMPLETION OF THE WORK, EXISTING PAVEMENT MARKINGS SHALL BE REESTABLISHED AS DIRECTED BY THE ENGINEER





REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 10/12/2014

DESIGNER/DRAFTER: <b>CIH</b>
CHECKED BY: <b>AGB</b>
SCALE IN FEET 0 40 80 SCALE 1"=40'

**STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**



Filename: ...FD\_MSH\_PMP\_0118\_0167\_C019.dgn

SIGNATURE/  
BLOCK:



Kleinfelder  
500 Enterprise Drive,  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

TOWN:  
**ROCKY HILL**

DRAWING TITLE:  
**PAVEMENT MARKING  
PLAN - 2**

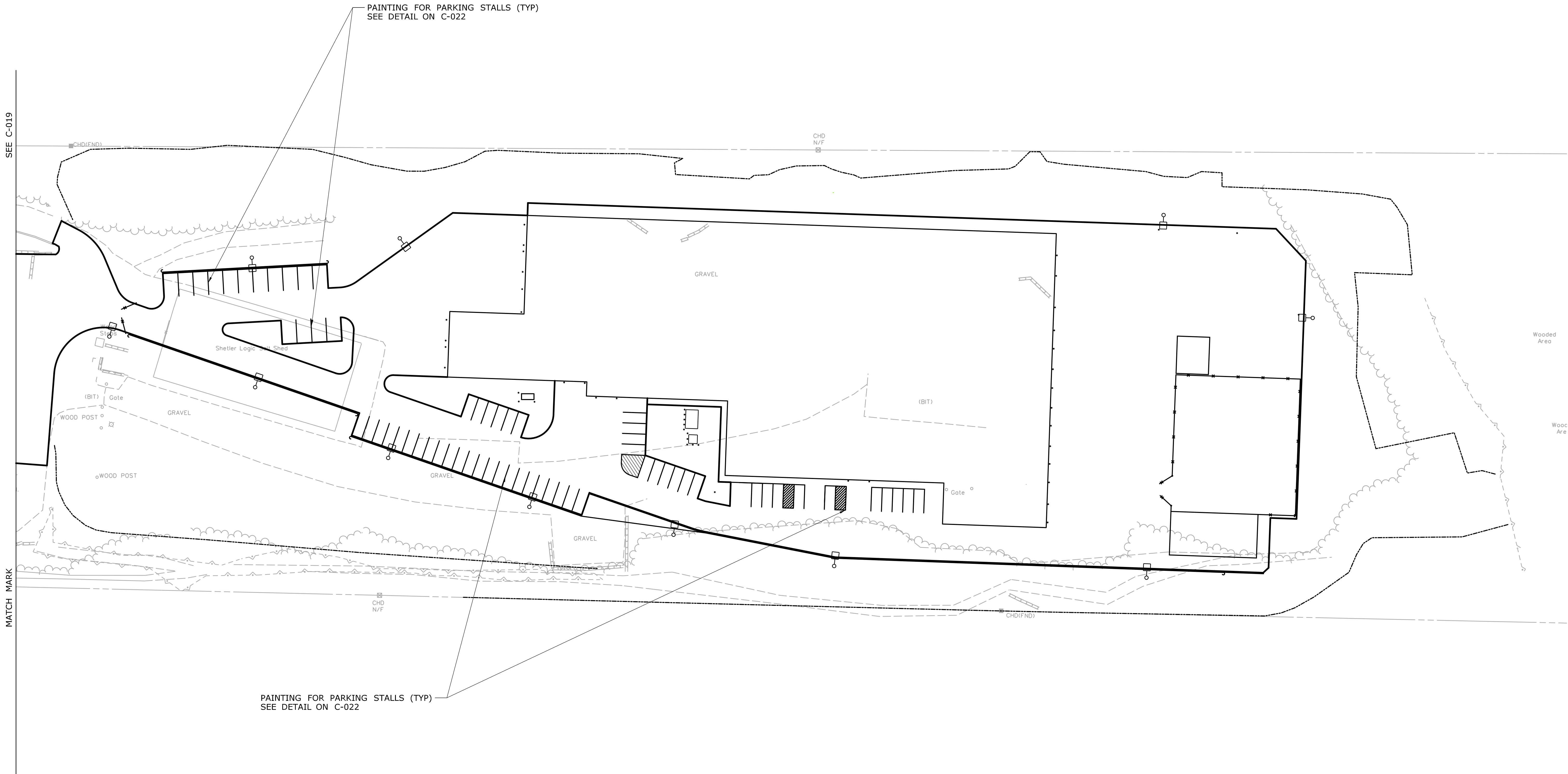
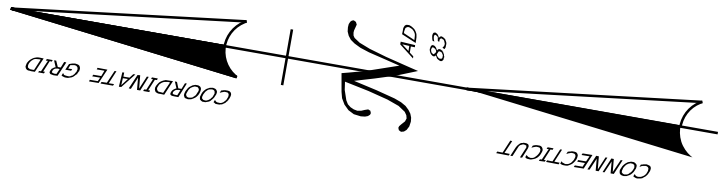
PROJECT NO.  
**118-167**

DRAWING NO.  
**C-019**

SHEET NO.  
**05.19**



NOTE:  
1. UPON COMPLETION OF THE WORK, EXISTING PAVEMENT MARKINGS SHALL BE REESTABLISHED AS DIRECTED BY THE ENGINEER



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 10/14/2014

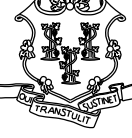
DESIGNER/DRAFTER:  
**CIH**

CHECKED BY:  
**AGB**

SCALE IN FEET

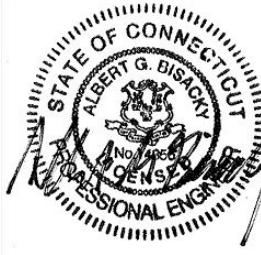
0 40 80

SCALE 1"=40'

 **STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**

Filename: ...\\FD\_MSH\_PMP\_0118\_0167\_C020.dgn

SIGNATURE/  
BLOCK:

 Kleinfelder  
500 Enterprise Drive,  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:

**REPAIR FACILITY**

TOWN: **ROCKY HILL**

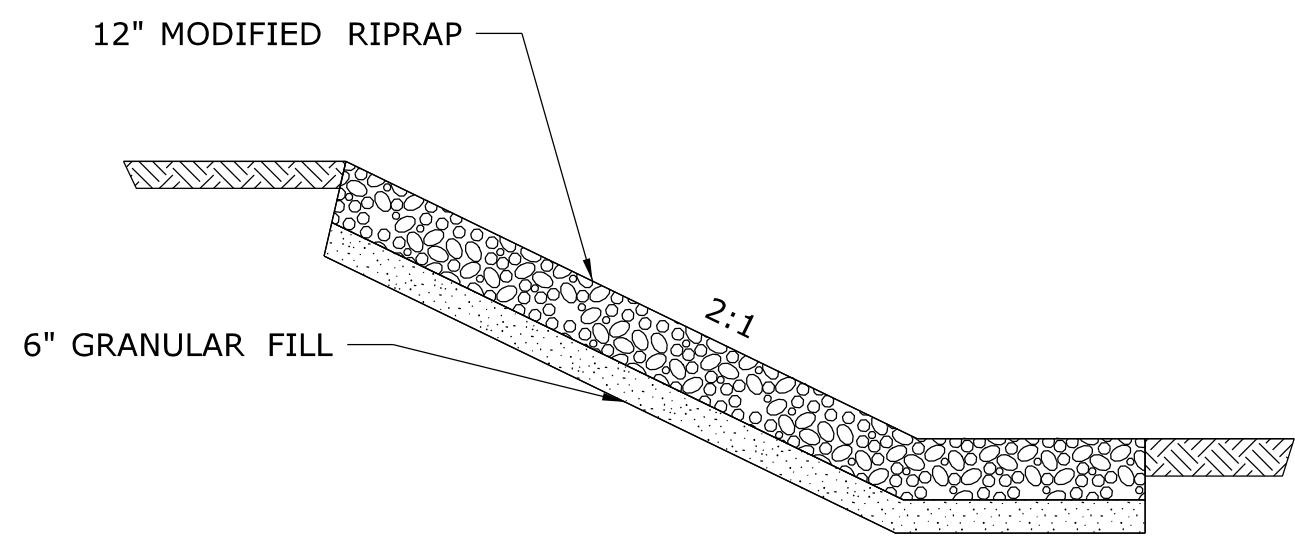
DRAWING TITLE:  
**PAVEMENT MARKING PLAN - 3**

PROJECT NO.  
**118-167**

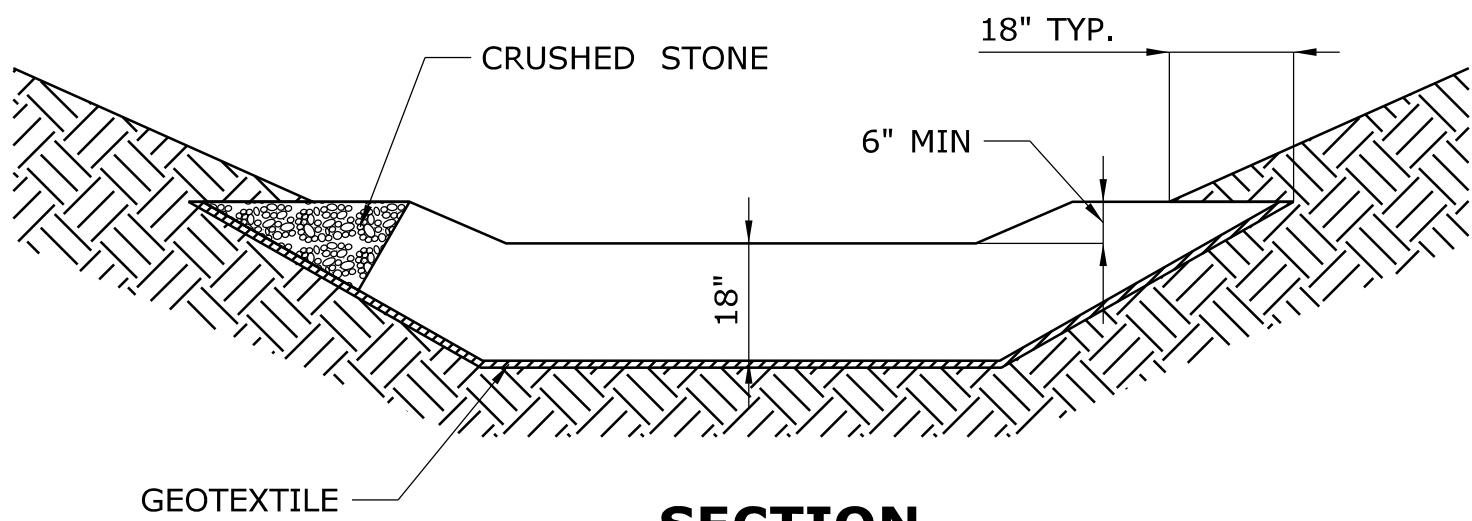
DRAWING NO.  
**C-020**

SHEET NO.  
**05.20**

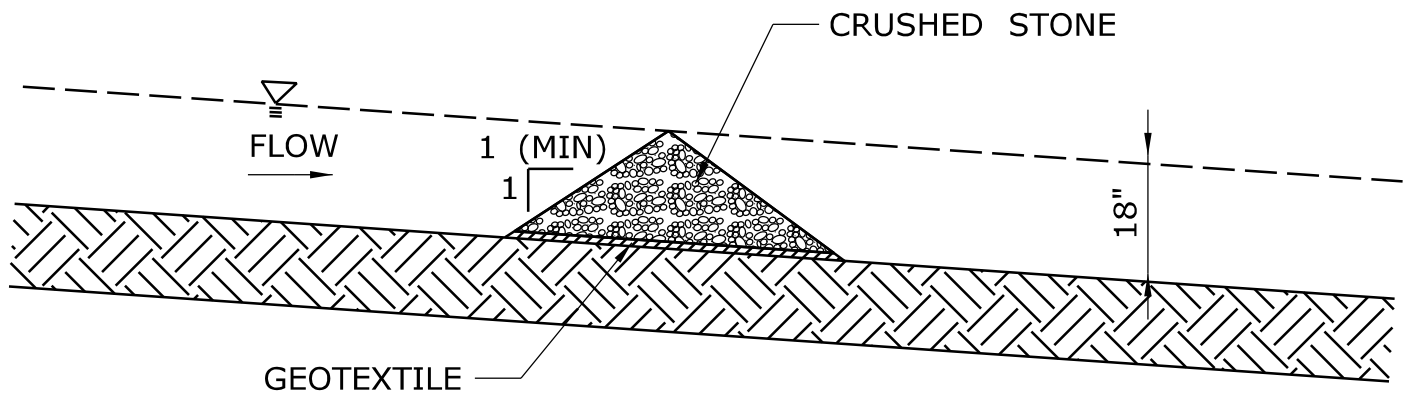




**SLOPE PROTECTION DETAIL**  
NOT TO SCALE

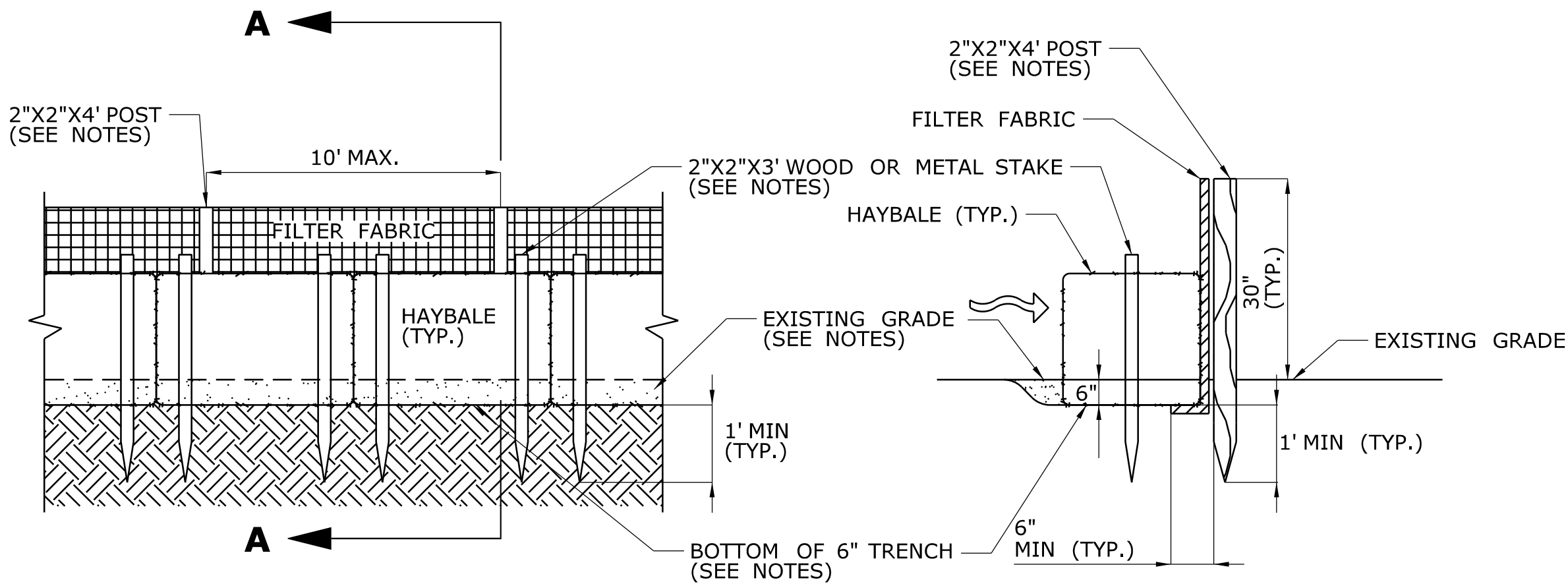


**SECTION**



**PROFILE**

**TEMPORARY CHECK DAM**  
NOT TO SCALE

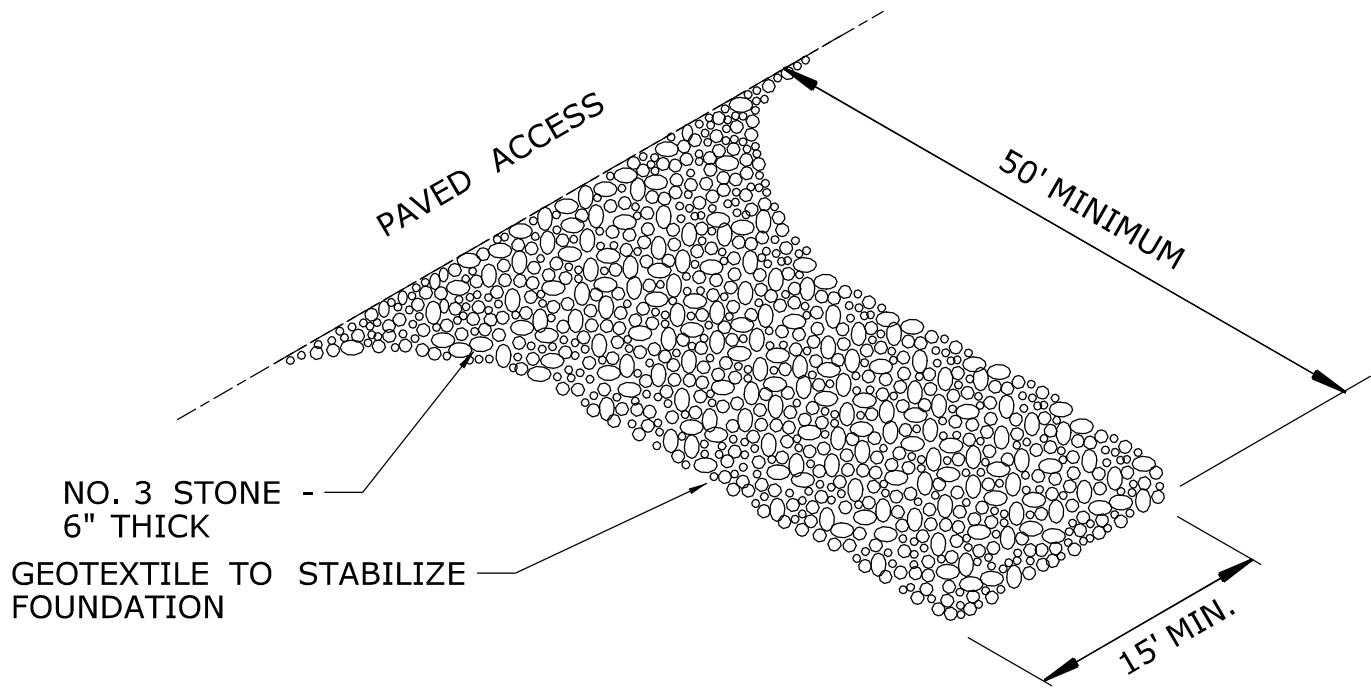


**SECTION A-A**

NOTES:

1. FABRIC TO BE ATTACHED TO POSTS WITH STAPLES.
2. FABRIC TO BE UV RESISTANT POLYPROPYLENE WITH A MINIMUM WEIGHT OF 2.5 OZ./S.Y.
3. USE SILT FENCE AND HAYBALES WHERE INDICATED OR AS DIRECTED BY THE ENGINEER.
4. WHERE HAYBALES ARE USED, TRENCH A MINIMUM OF 6" INTO EXISTING GRADE.
5. A MINIMUM OF TWO (2) WOODEN OR METAL STAKES PER HAYBALE. DRIVE STAKES A MINIMUM OF 12" INTO GROUND.

**SEDIMENTATION CONTROL SYSTEM**  
NOT TO SCALE



NOTES:

1. LOCATION TO BE APPROVED BY ENGINEER.
2. ADJACENT PAVED ACCESS TO BE CLEANED ONCE A DAY.
3. MUD MUST BE REMOVED FROM ALL CONSTRUCTION VEHICLES BEFORE ENTERING PUBLIC ROADS.
4. PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP SEDIMENT BEFORE IT IS CARRIED OFF-SITE.


**ANTI-TRACKING PAD**  
NOT TO SCALE


REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 10/12/2014

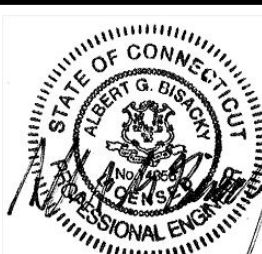
DESIGNER/DRAFTER: <b>SAH</b>
CHECKED BY: <b>AGB</b>
SCALE AS NOTED

**STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**



Filename: ...VFD\_MSH\_DET\_0118\_0167\_C021.dgn

SIGNATURE/  
BLOCK:



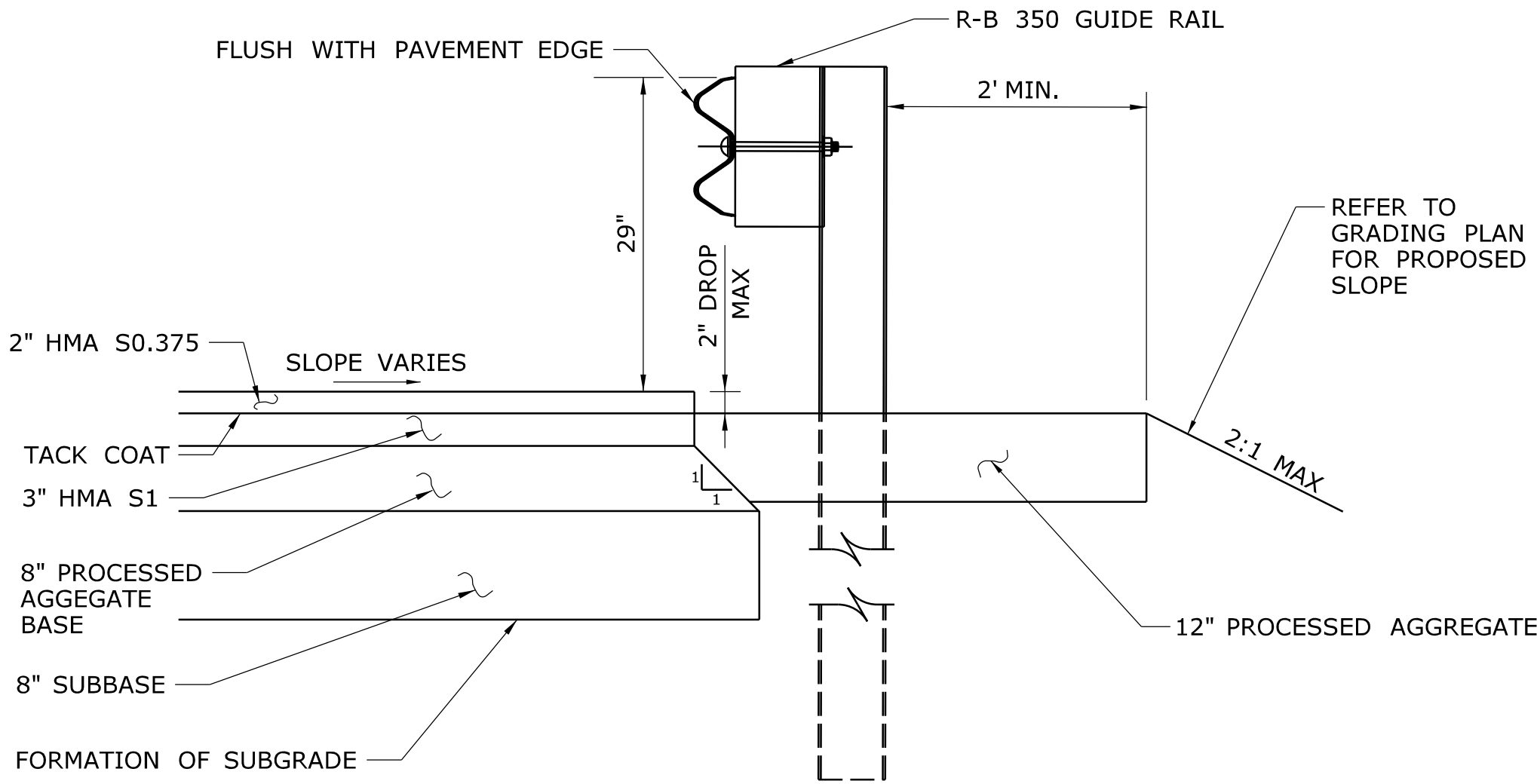
Kleinfelder  
500 Enterprise Drive,  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:  <b>REPAIR FACILITY</b>
--

TOWN: <b>ROCKY HILL</b>
DRAWING TITLE: <b>CIVIL DETAILS - 1</b>

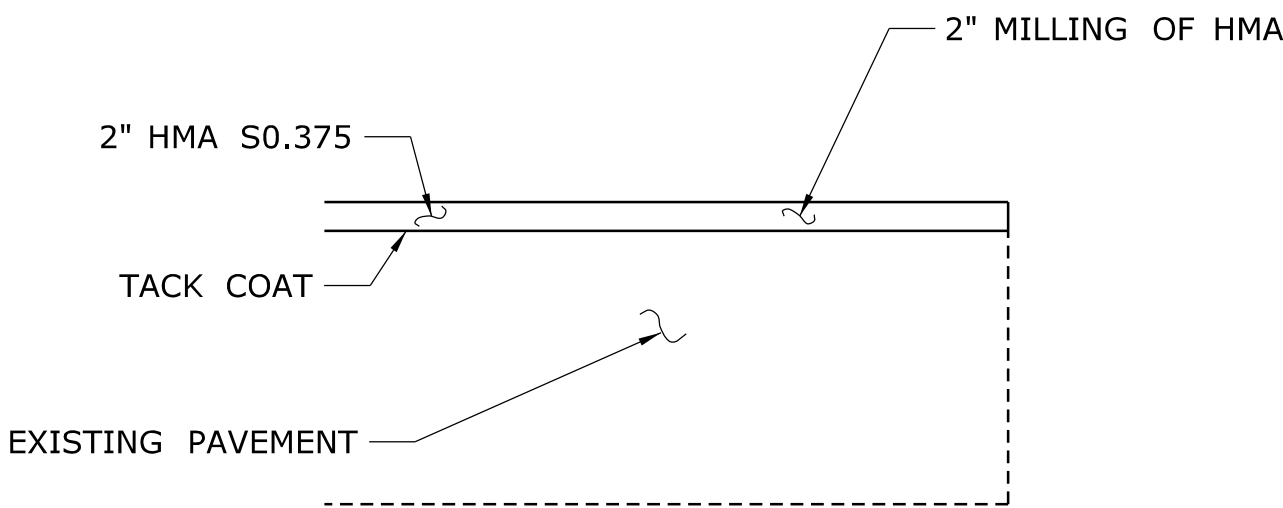
PROJECT NO. <b>118-167</b>
DRAWING NO. <b>C-021</b>
SHEET NO. <b>05.21</b>



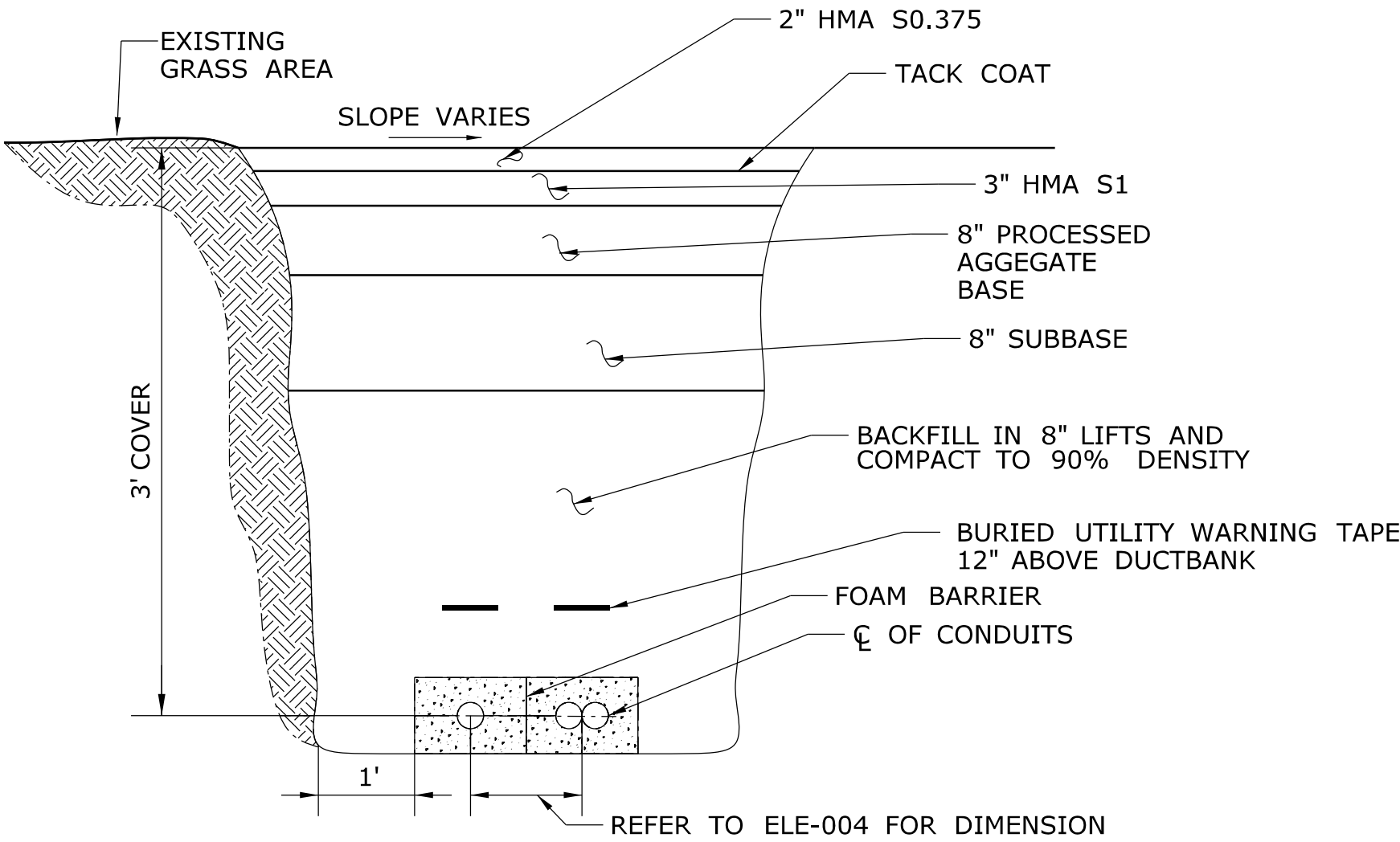


NOTE: INSTALL GUIDE RAIL WHERE INDICATED ON THE SITE PLAN.

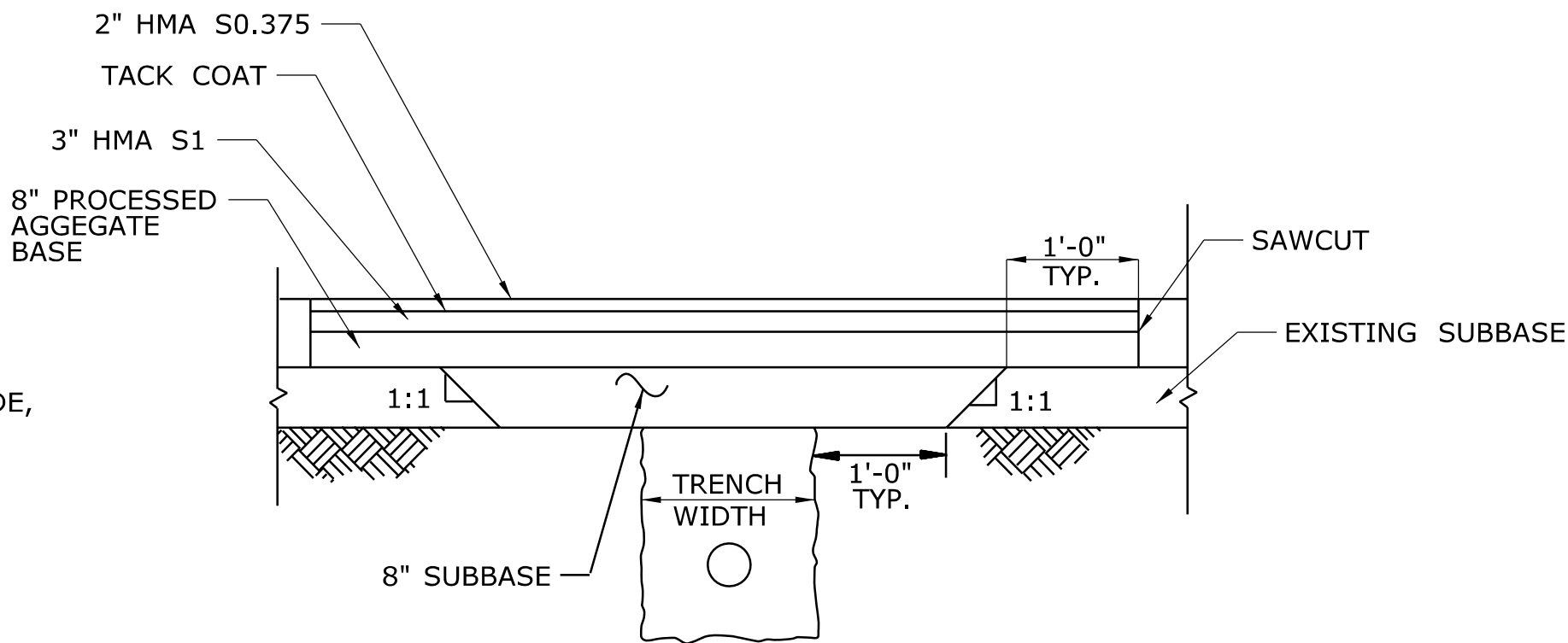
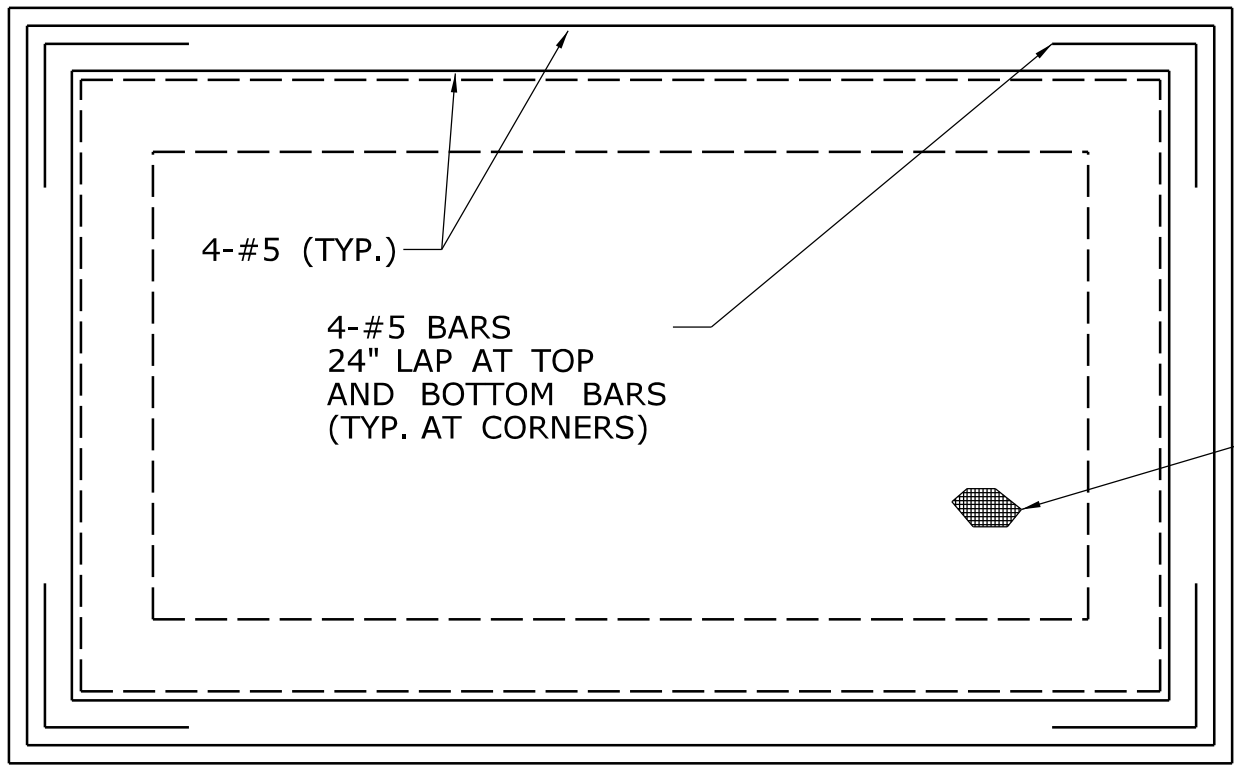
**BITUMINOUS CONCRETE PAVEMENT**  
NOT TO SCALE



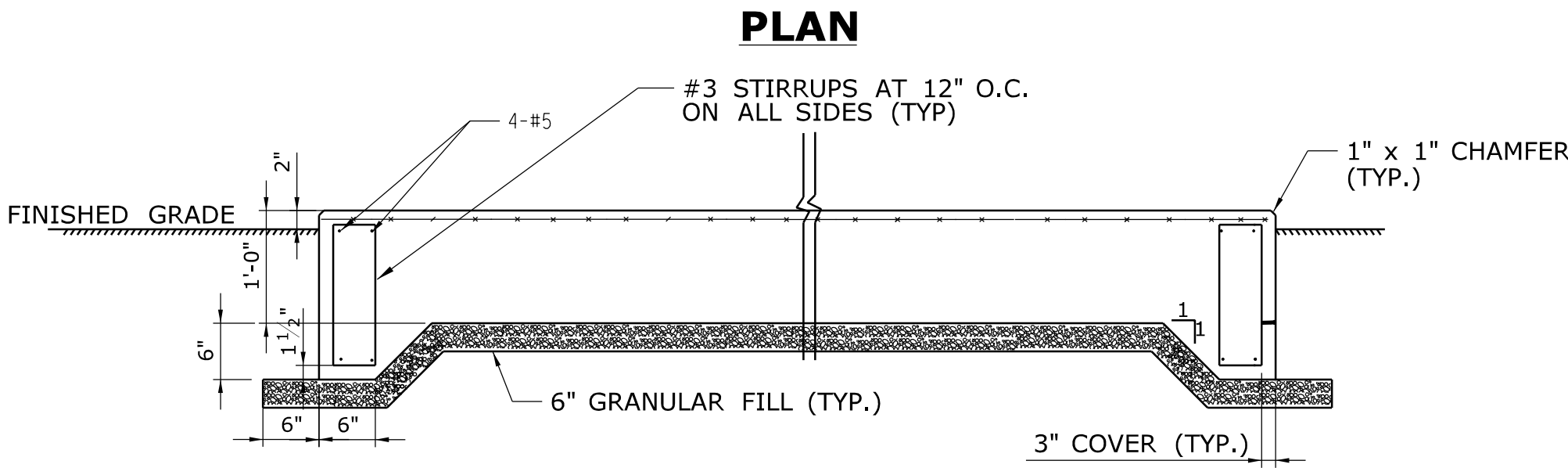
**MILLING AND OVERLAY OF BITUMINOUS CONCRETE PAVEMENT**  
NOT TO SCALE



**TYPICAL UTILITES DUCTBANK TRENCH**  
NOT TO SCALE

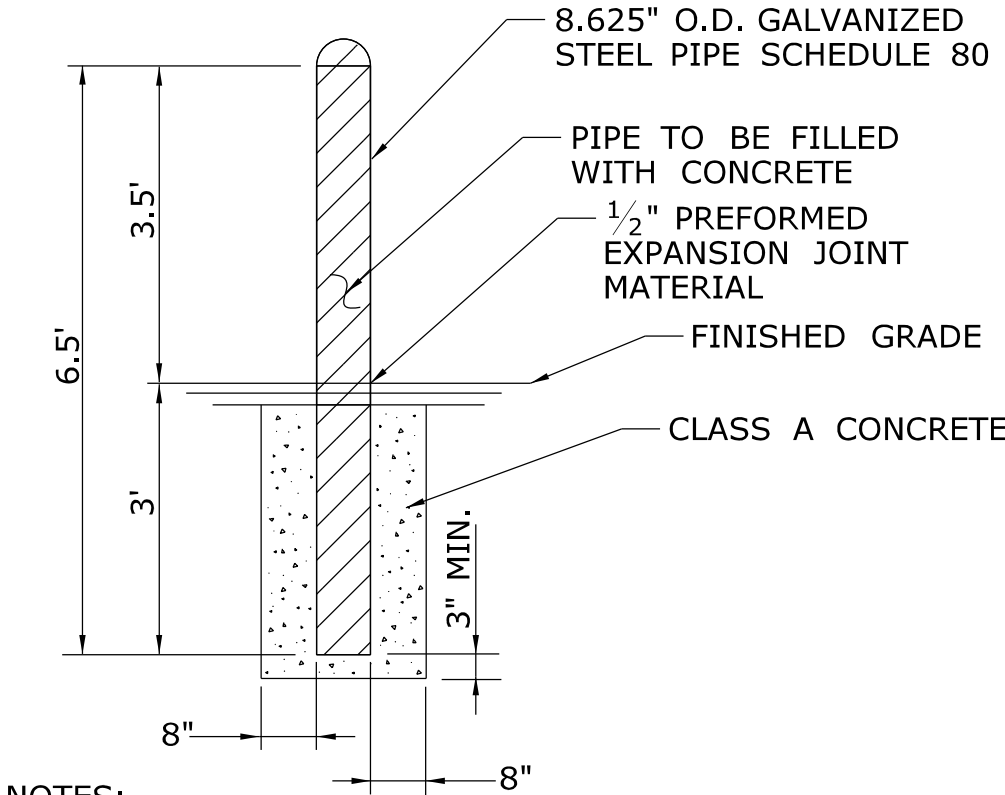


**PAVEMENT REPAIR TRENCH DETAIL**  
NOT TO SCALE



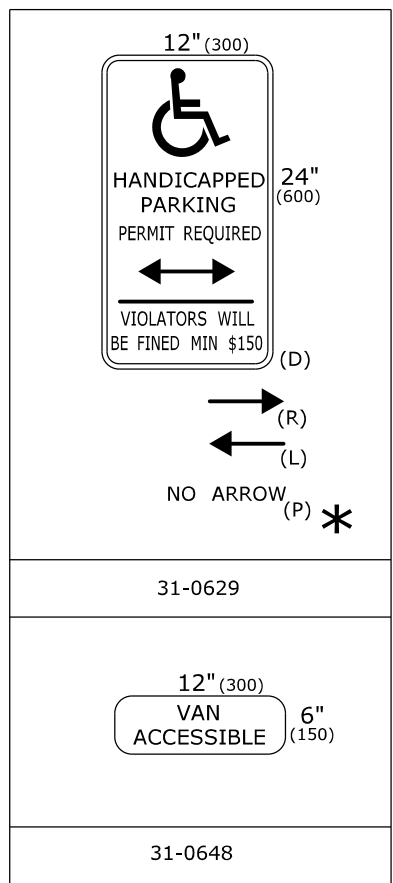
- NOTES:
1. CONCRETE SHALL BE CLASS F. REINFORCING SHALL BE EPOXY-COATED ASTM A615 GRADE 60.
  2. DIMENSIONS FOR GENERATOR PAD SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS. COST OF THE GENERATOR PAD SHALL BE INCLUDED IN THE MLSI.
  3. DIMENSIONS FOR WASTE OIL TANK PAD SHALL FOLLOW MANUFACTURER'S RECOMMENDATIONS. COST OF THE WASTE OIL TANK PAD SHALL BE INCLUDED IN THE MLSI.

**CONCRETE PAD**  
NOT TO SCALE



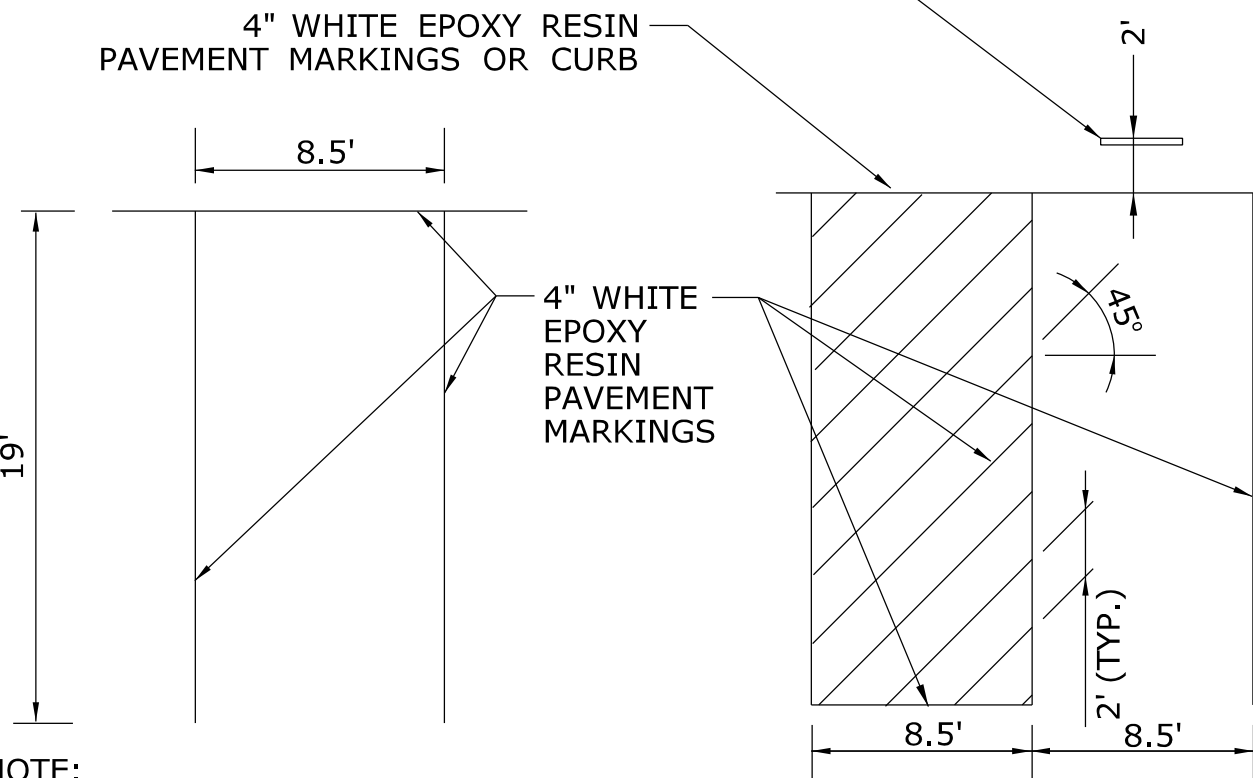
- NOTES:
1. BOLLARDS SHALL BE COVERED WITH 1/4" YELLOW POLYETHYLENE COVER.
  2. TRIM BOLLARD COVER TO FIT.

**BOLLARD**  
NOT TO SCALE



**PARKING SIGNS**  
NOT TO SCALE

INSTALL ACCESSIBLE PARKING SIGN (CDOT SIGN #31-0629P) AND VAN ACCESSIBLE PARKING SIGN (CDOT SIGN #31-0648)





- NOTE:
1. WHERE SIDE OR END OF PARKING STALL IS BORDERED BY CURBING, PAINTED LINES ARE NOT REQUIRED.
  2. WHERE PARKING STALL IS IN FRONT OF THE BUILDING, INSTALL ACCESSIBLE PARKING SIGN AND VAN ACCESSIBLE PARKING SIGN ON THE BUILDING.

**PAINTING FOR PARKING STALLS**  
NOT TO SCALE

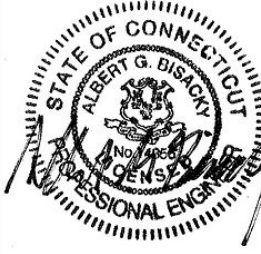
REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 10/21/2014
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DESIGNER/DRAFTER: <b>SAH</b>
CHECKED BY: <b>AGB</b>
SCALE AS NOTED

**STATE OF CONNECTICUT**  
**DEPARTMENT OF TRANSPORTATION**

  
Filename: ...\\FD\_MSH\_DET\_0118\_0167\_C022.dgn

SIGNATURE/  
BLOCK:

  
Kleinfelder  
500 Enterprise Drive,  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:

**REPAIR FACILITY**

TOWN:

**ROCKY HILL**

DRAWING TITLE:

**CIVIL DETAILS - 2**

PROJECT NO.

**118-167**

DRAWING NO.

**C-022**

SHEET NO.

**05.22**



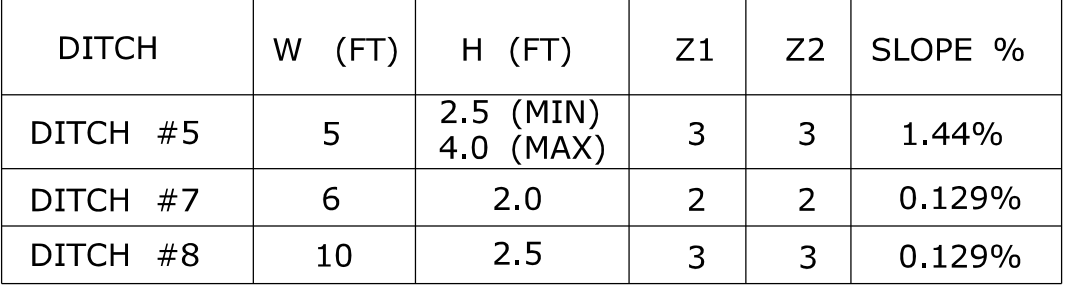


Diagram illustrating the cross-section of a channel or embankment. The width at the top is labeled  $W$ . The height from the bottom to the top level is labeled  $H$ . The left slope is labeled  $Z1:1$  and the right slope is labeled  $Z2:1$ . A label **PERMANENT STABILIZATION** points to the bottom of the channel.

DITCH	W (FT)	H (FT)	Z1	Z2	SLOPE %
DITCH #2	0 (V-CHANNEL)	2.5 (MIN) 3.0 (MAX)	3	3	0.80%
DITCH #6	5	2.0	3	3	2.24%

4'

EQ.  $\phi$  EQ.

3'

1'

8"

BASE PLATE

FINISHED GRADE

2" SEALANT

SAND-FILLED FOUNDATION TUBE

3500 PSI CONCRETE FOOTING

HARDWOOD WEDGES-4 AT TOP, 4 AT BOTTOM

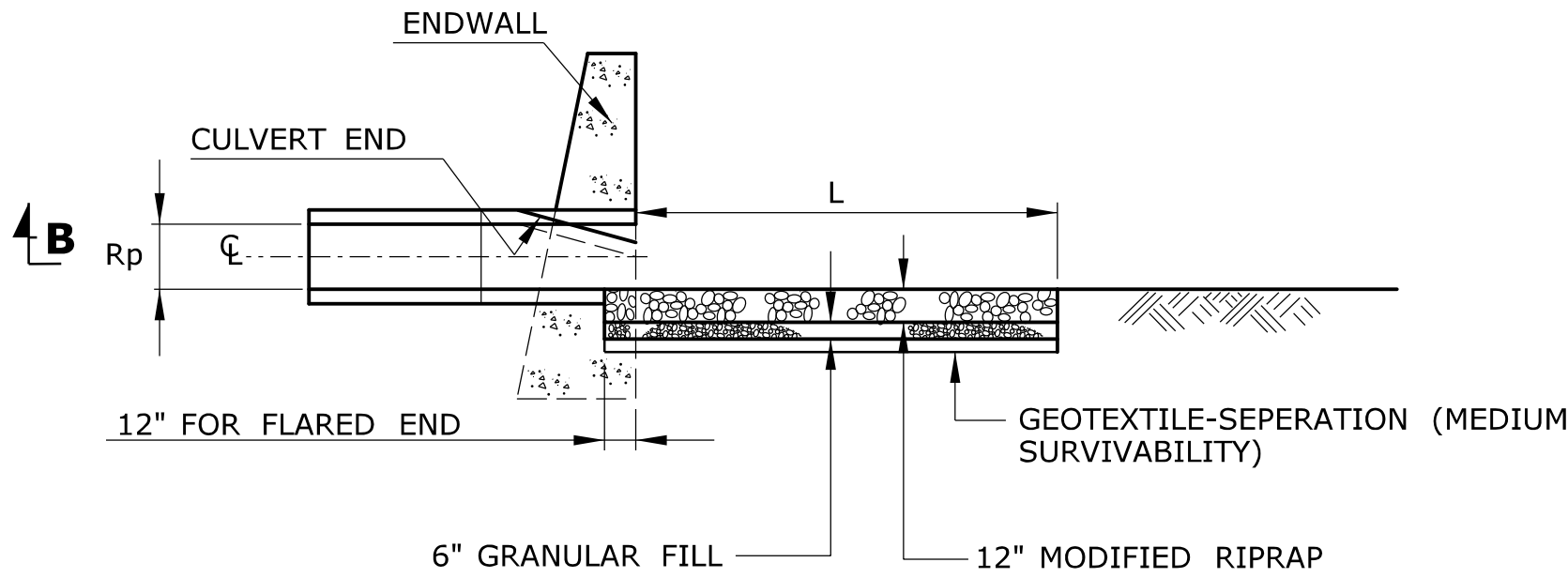
$\frac{3}{4}$ " x 16" DIA. BASE PLATE WELD TO FOUNDATION TUBE

8" x  $\frac{3}{4}$ " SECONDARY PLATE

8" COMPACTED GRAVEL

The diagrams illustrate two methods of connecting a concrete culvert to a bridge pier. The left diagram shows a culvert with a flared end, labeled 'FLARED END', with a 12-inch reinforced concrete culvert end. The right diagram shows a culvert connected to a pier via an 'ENDWALL'. Both diagrams include dimensions for width ( $W_1$ ,  $W_2$ ), length ( $L$ ), and a force vector ( $B$ ).

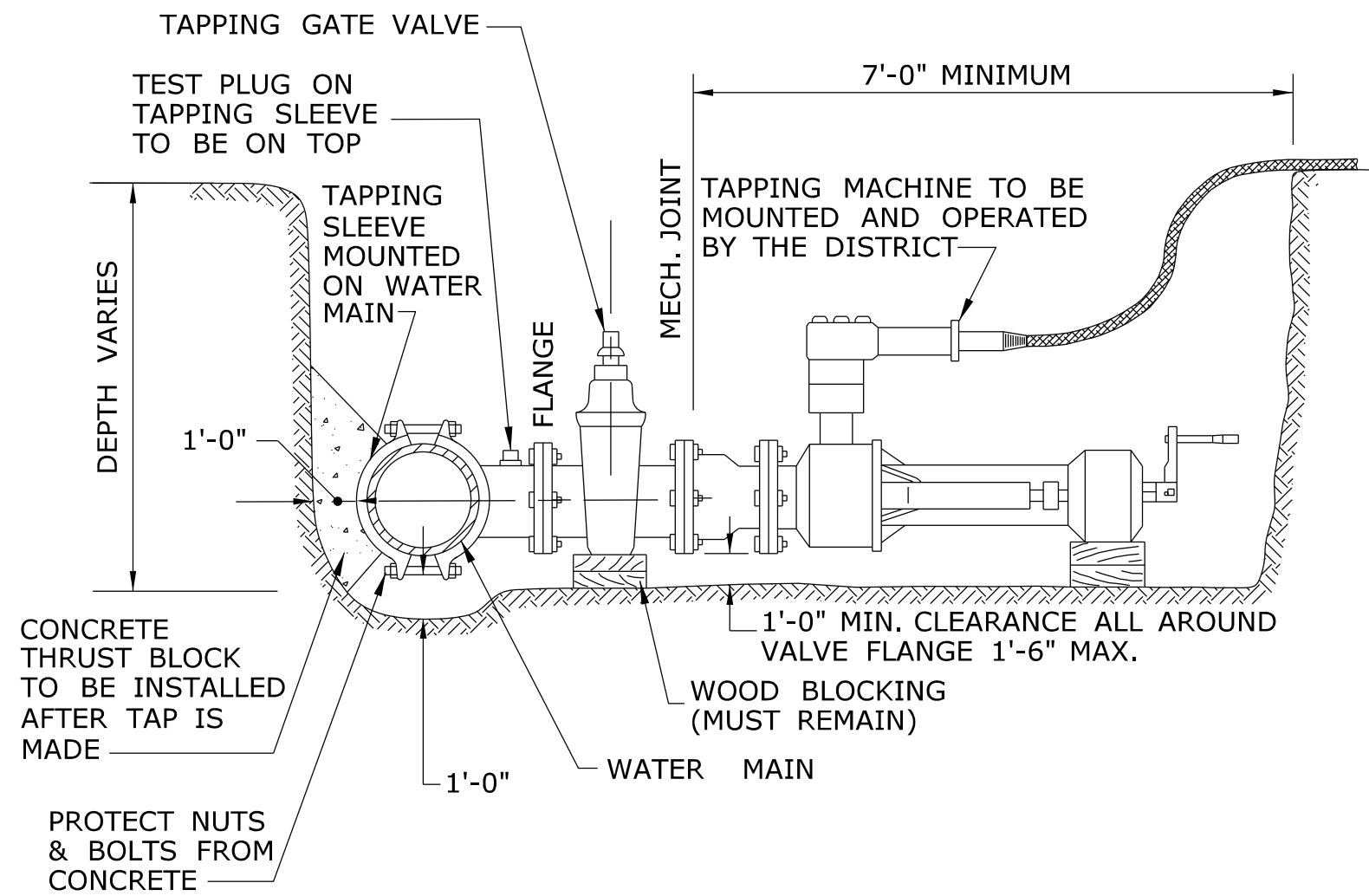
## ENDWALL PLAN VIEW



OUTFALL	W1 (FT)	W2 (FT)	L (FT)
OUTFALL #1	3.75	8.25	11.50
OUTFALL #2	3.75	8.25	6.50
OUTFALL #3	3.75	11.50	11.00
OUTFALL #4	3.75	5.00	5.00
OUTFALL #5	3.75	7.00	8.50

PROJECT NO.	<b>118-167</b>
DRAWING NO.	<b>C-023</b>
SHEET NO.	<b>05.23</b>



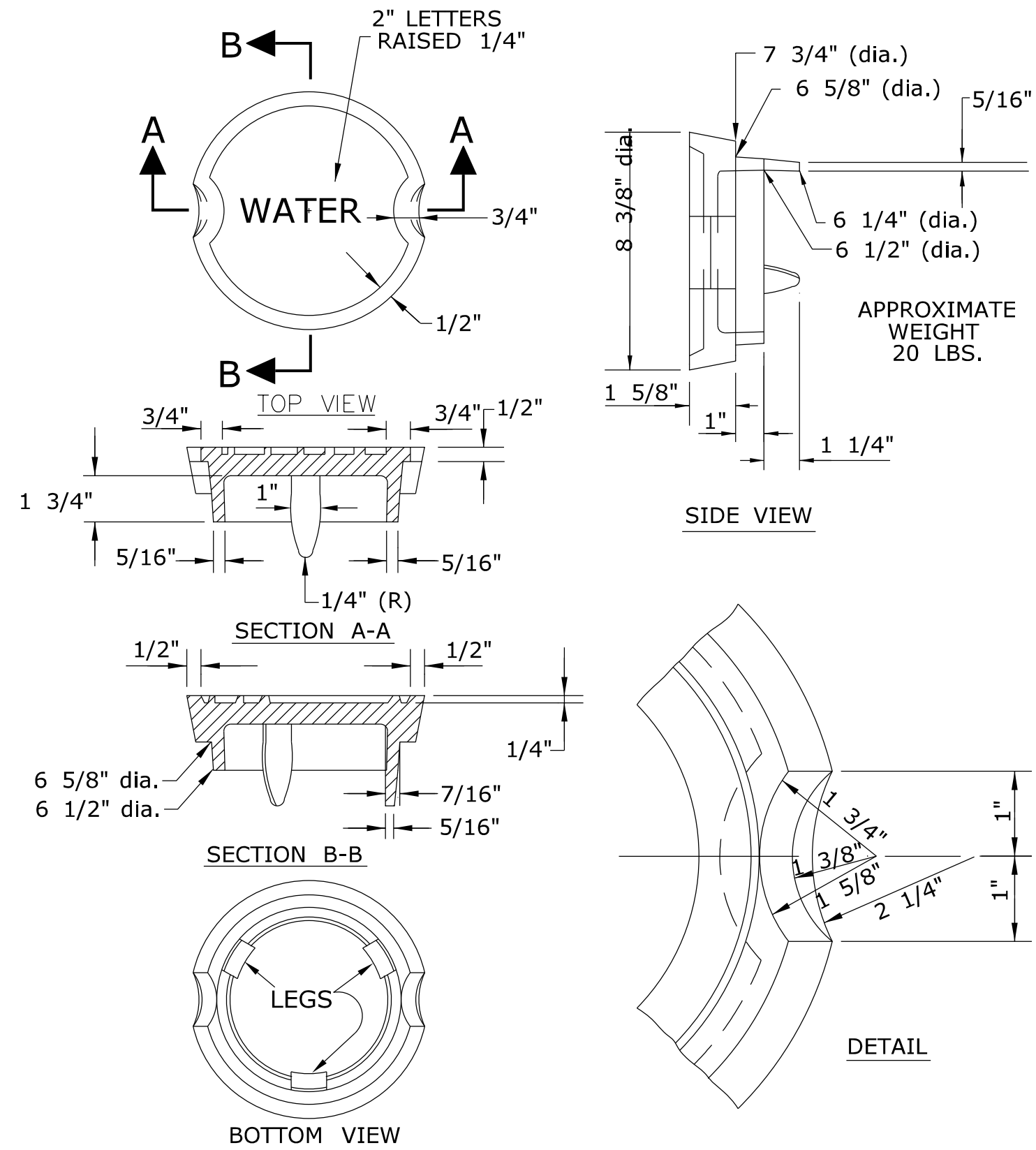


NOTES:

1. TAPPING SLEEVE & TAPPING GATE VALVE TO BE INSTALLED ON WATER MAIN BY THE CONTRACTOR. THE DISTRICT WILL TEST INSTALLATION PRIOR TO MAKING TAP. NO TAP WILL BE MADE IF THERE IS NO TEST PLUG.
2. TAPPING GATE VALVE TO HAVE HAND OF OPERATION AS DIRECTED BY THE DISTRICT. IF VALVE HAND OF OPERATION IS NOT CORRECT, NO TAP WILL BE MADE.
3. TRENCH TO BE DEWATERED AND IN COMPLIANCE WITH OSHA REQUIREMENTS FOR TRENCH EXCAVATION.

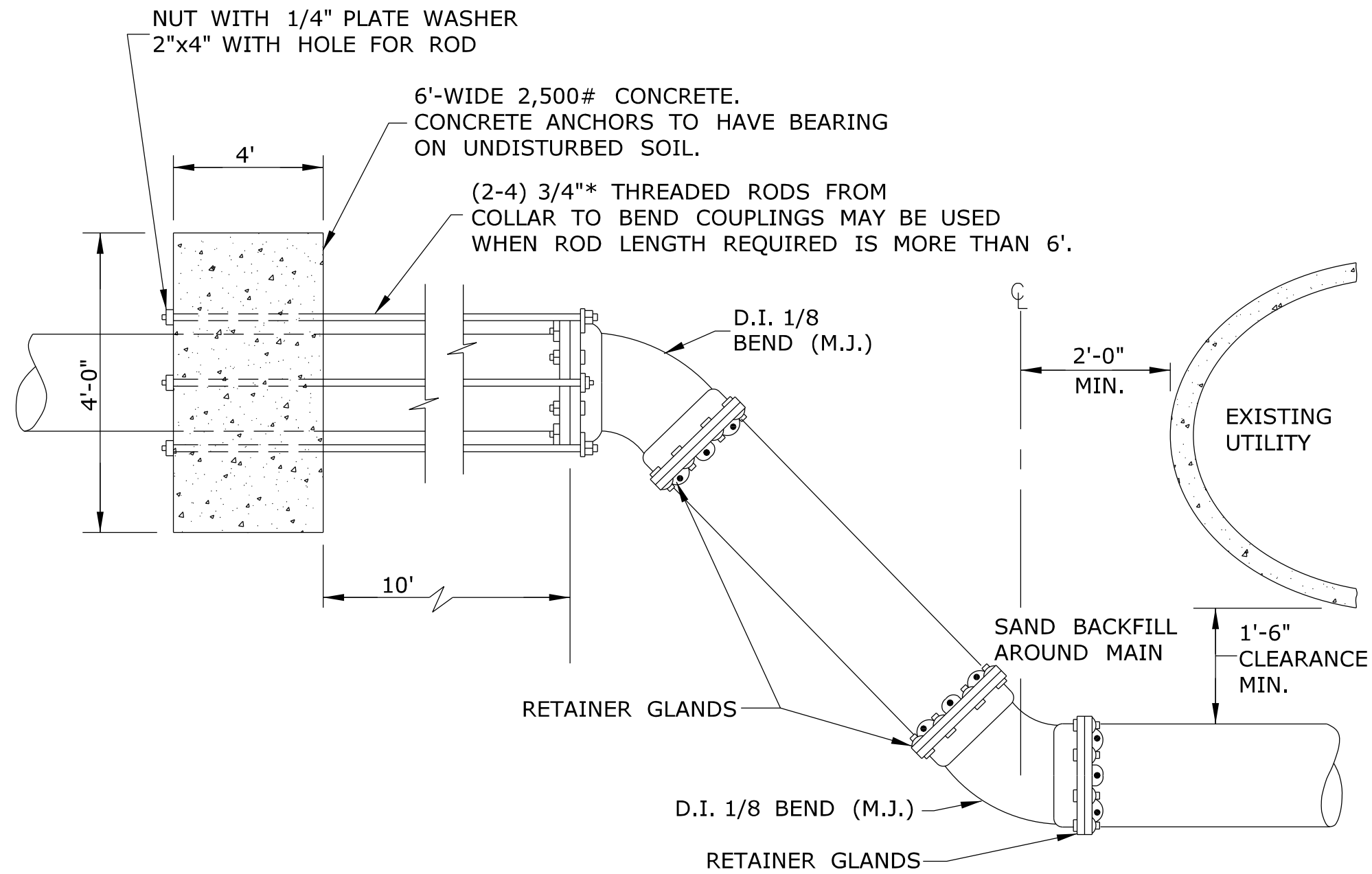
4-INCH TO 12-INCH TAP ON WATER MAIN

NOT TO SCALE



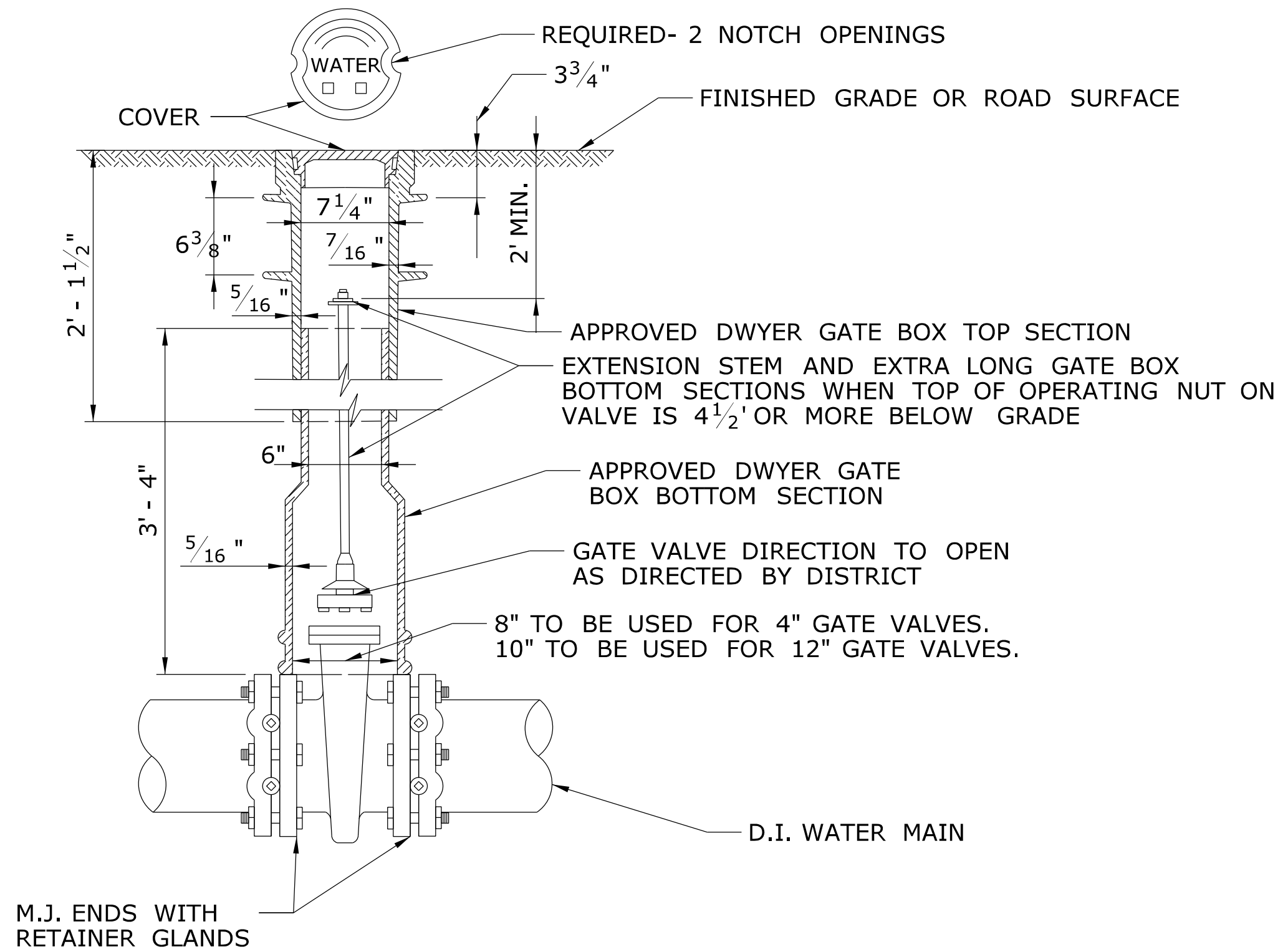
CAST IRON GATE BOX COVER

NOT TO SCALE



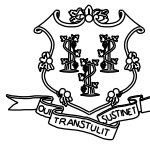

TYPICAL OFFSET

NOT TO SCALE

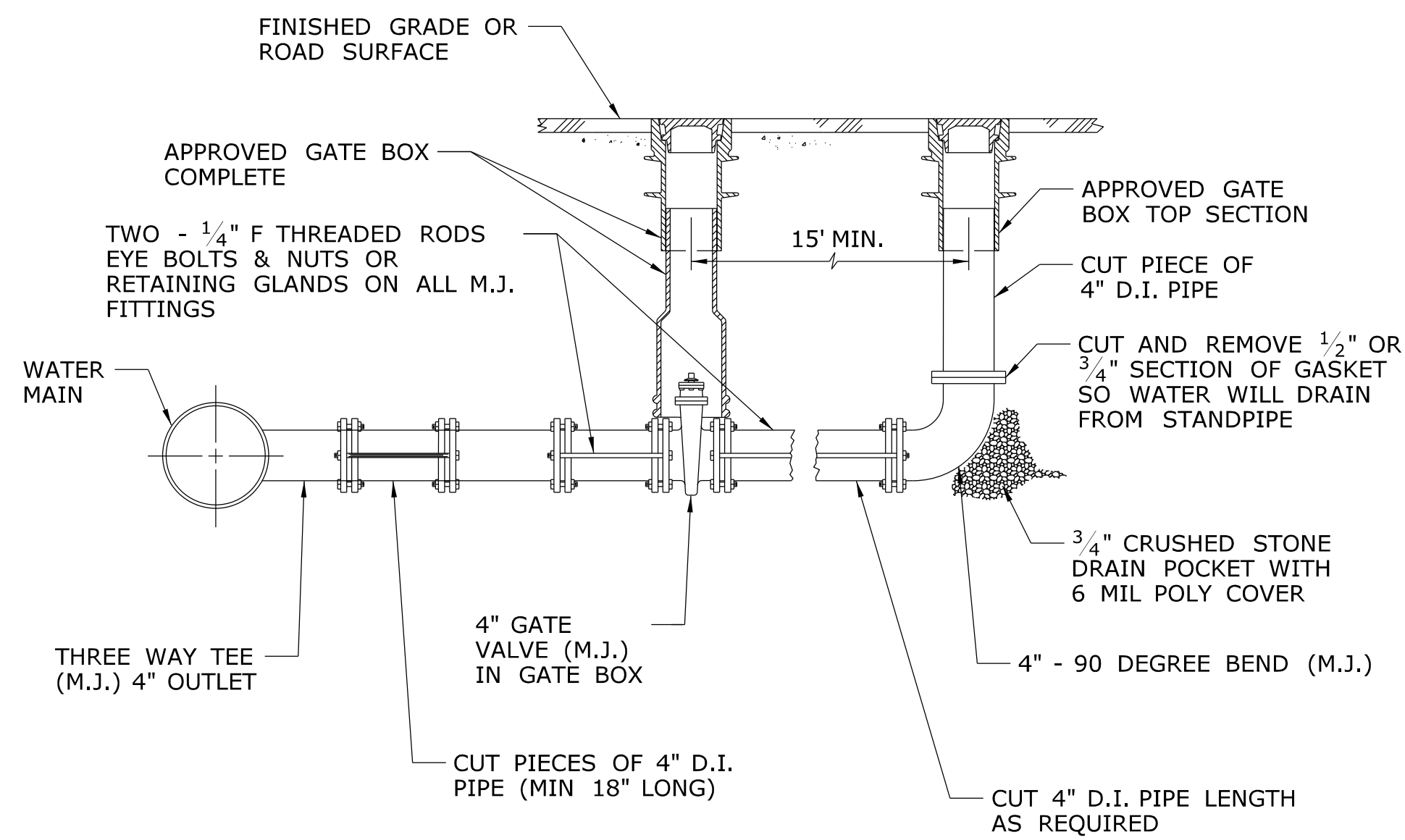


STANDARD GATE BOX AND TYPICAL GATE VALVE INSTALLATION

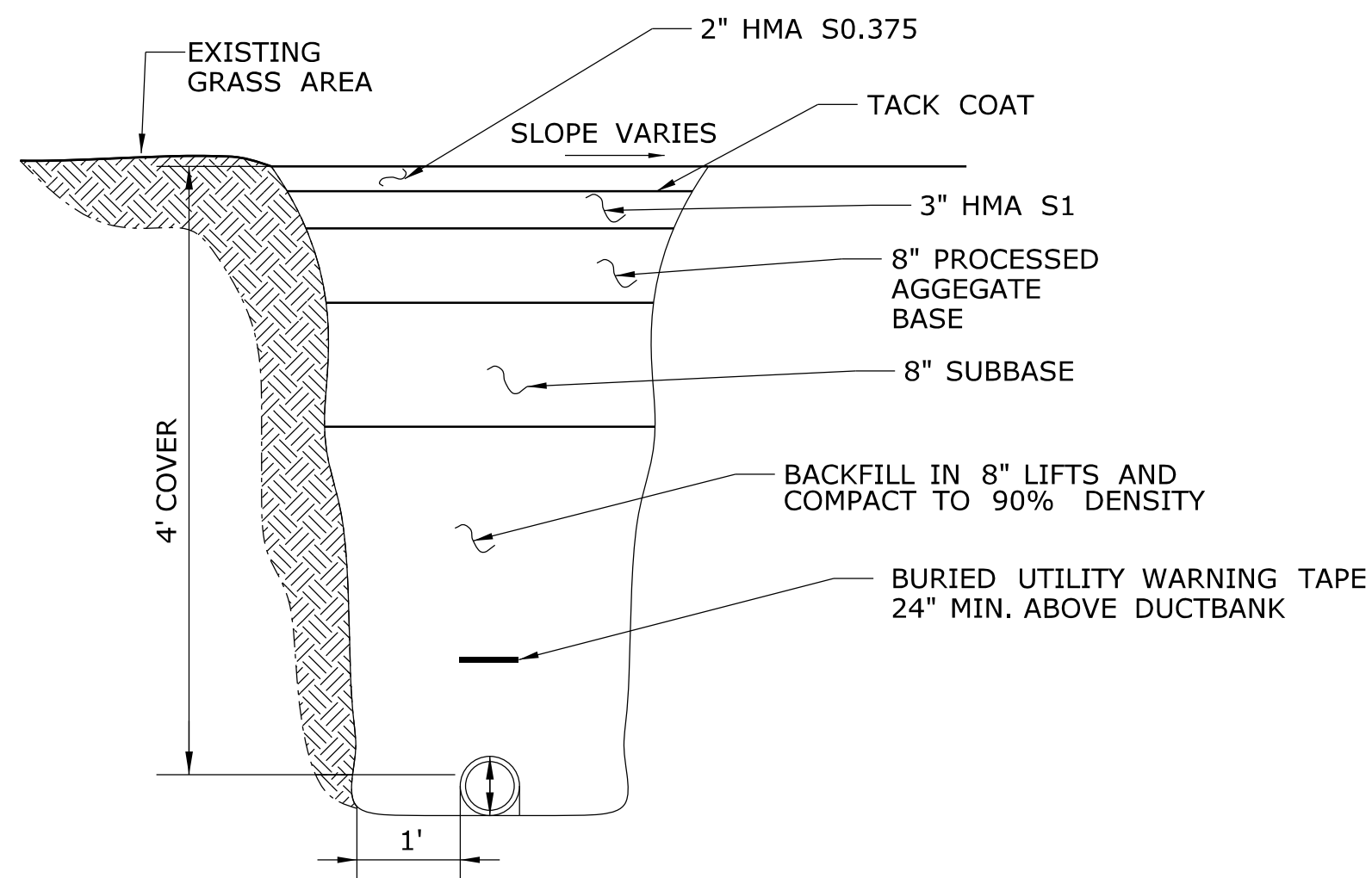
NOT TO SCALE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 10/12/2014	DESIGNER/DRAFTER: <b>SAH</b> CHECKED BY: <b>AGB</b> SCALE AS NOTED	 <b>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</b> Filename: ...\\FD_MSH_DET_0118_0167_C024.dgn	SIGNATURE/ BLOCK:  Kleinfelder 500 Enterprise Drive, Suite 4B Rocky Hill, CT 06067	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b> DRAWING TITLE: <b>WATER MAIN DETAILS - 1</b>	PROJECT NO. <b>118-167</b> DRAWING NO. <b>C-024</b> SHEET NO. <b>05.24</b>
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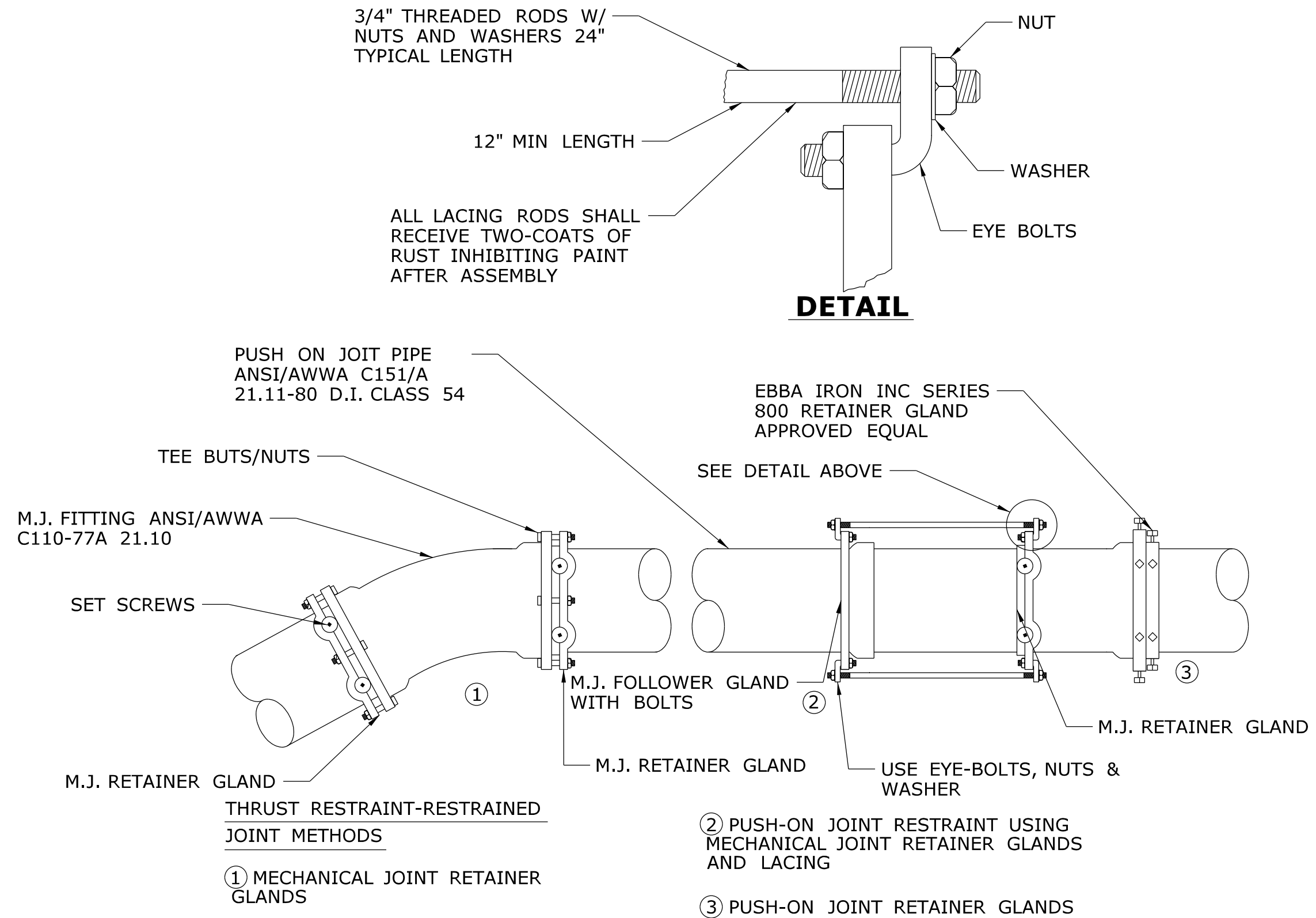




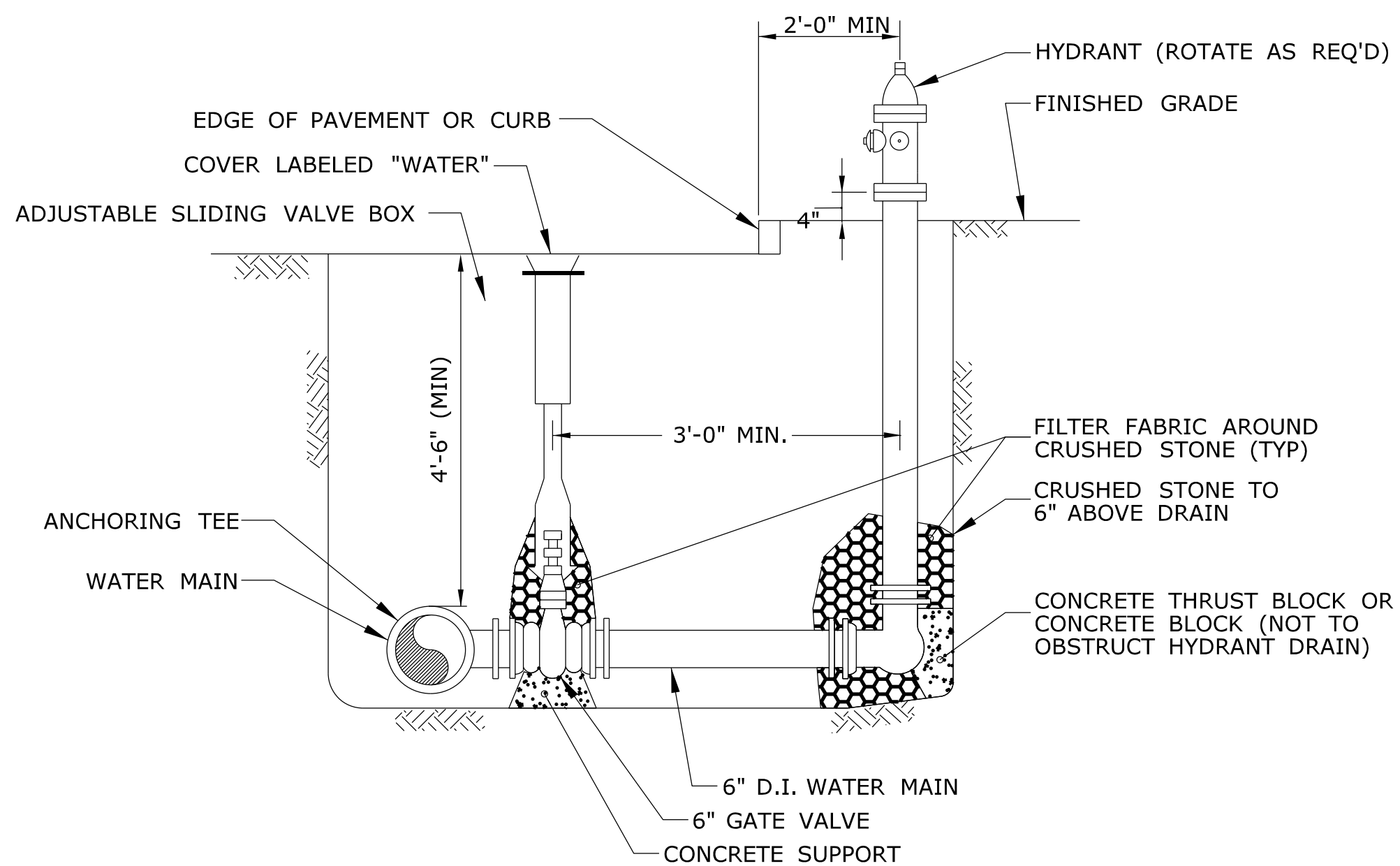
**4" BLOW-OFF ASSEMBLY**  
NOT TO SCALE



**TYPICAL WATER MAIN TRENCH**  
NOT TO SCALE



**TYPICAL RESTRAINED JOINTS**  
NOT TO SCALE



- NOTES:  
 1.ALL JOINTS TO BE RESTRAINED.  
 2.USE TWO 6" BENDS OR OFFSET ON LATERAL TO ACHIEVE REQUIRED HYDRANT ELEVATION IF NECESSARY.  
 3.IF VALVE BOX IS NOT IN PAVED AREA PROVIDE CONCRETE COLLAR.

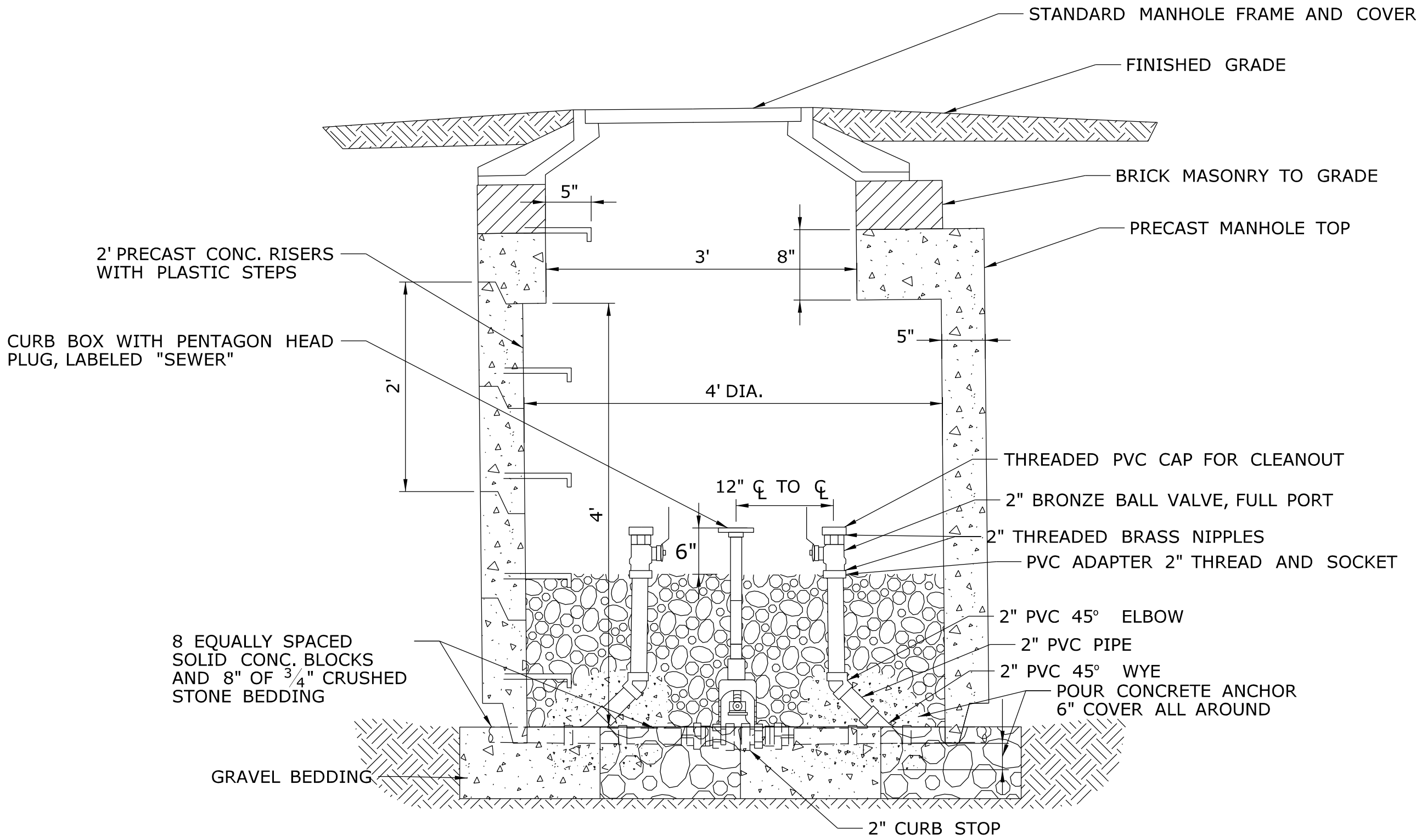
**HYDRANT AND VALVE DETAIL**  
NOT TO SCALE

<div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> <div></div> </div>	-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: <b>SAH</b>	<div> <div> <b>STATE OF CONNECTICUT</b>  <b>DEPARTMENT OF TRANSPORTATION</b> </div> </div>	SIGNATURE/ BLOCK:  Kleinfelder 500 Enterprise Drive, Suite 4B Rocky Hill, CT 06067	PROJECT TITLE:  <b>REPAIR FACILITY</b>	TOWN:  <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b>
	-	-	-	-		CHECKED BY: <b>AGB</b>					DRAWING NO. <b>C-025</b>
	-	-	-	-		SCALE AS NOTED					SHEET NO. <b>05.25</b>
	REV.	DATE	REVISION DESCRIPTION	SHEET NO.		Plotted Date: 10/14/2014					



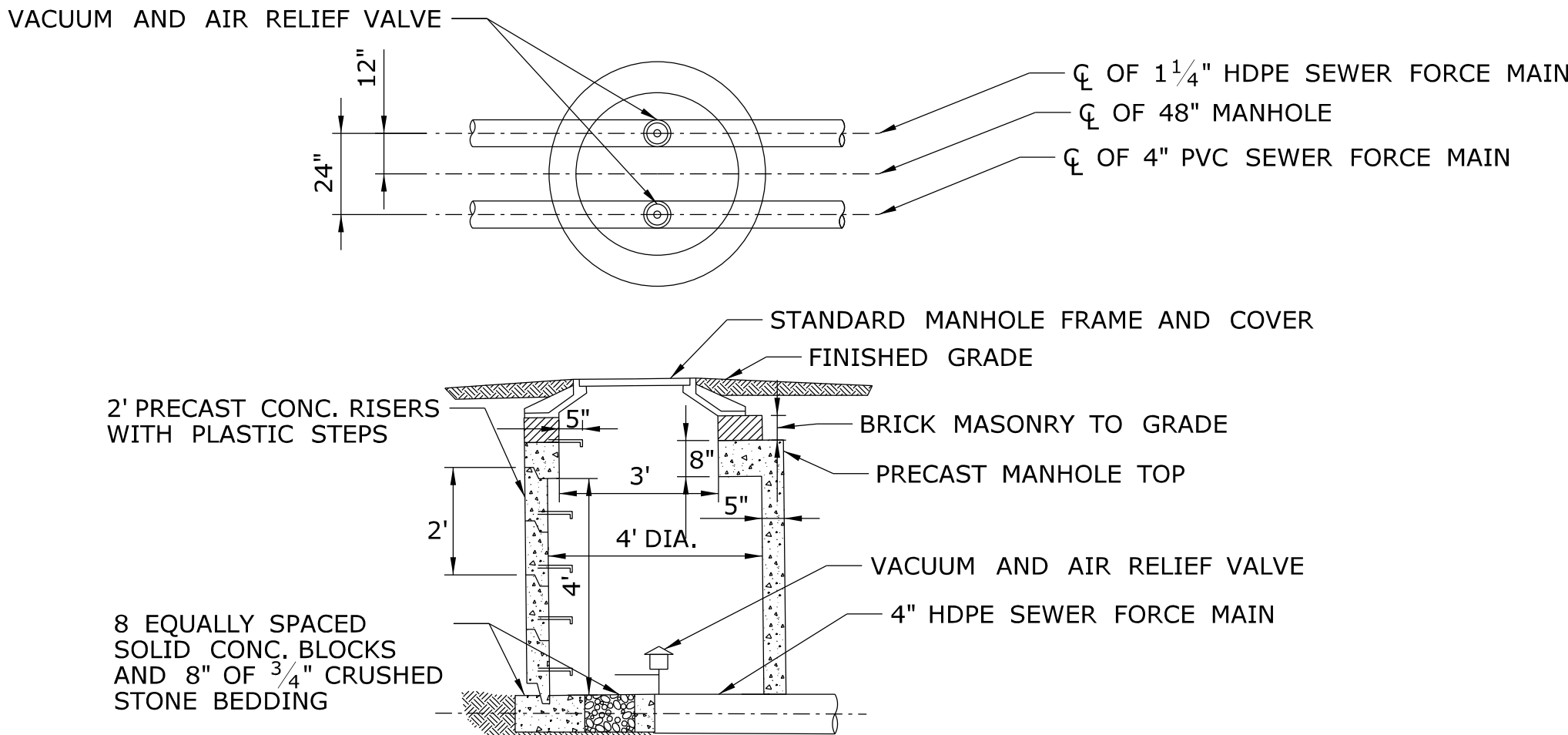
NOTES:

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH METROPOLITAN DISTRICT STANDARDS AND SPECIFICATIONS.
- THE SANITARY SEWER SHALL BE CONSTRUCTED UNDER A DEVELOPER'S PERMIT AGREEMENT BETWEEN (NAME AS APPEARS ON CERTIFICATE OF TITLE) AND THE METROPOLITAN DISTRICT, AND SHALL BE BUILT BY A LICENSED DRAIN LAYER UNDER PERMIT BY AND UNDER THE SUPERVISION OF THE DIRECTOR OF ENGINEERING AND PLANNING OR THEIR DESIGNEE.
- "CALL BEFORE YOU DIG" - THE CONTRACTOR IS HEREBY REMINDED THAT TITLE 16, CHAPTER 293 OF THE CONNECTICUT GENERAL STATUTES REQUIRES NOTIFICATION OF THE UTILITY COMPANIES OF PENDING EXCAVATION AT OR NEAR PUBLIC UTILITIES. THE CONTRACTOR SHALL CALL 1-800-922-4455 AT LEAST 48 HOURS PRIOR TO BEGINNING THE EXCAVATION.
- SANITARY SEWERS ARE FOR SANITARY SEWAGE ONLY. ALL STORM WATER, COOLING WATER, AND SUBSOIL DRAINAGE ARE EXCLUDED FROM SANITARY SEWERS BY DISTRICT ORDINANCES.
- SANITARY SEWER DISCHARGES MUST MEET ALL APPLICABLE STATE, FEDERAL, METROPOLITAN DISTRICT AND LOCAL REGULATIONS. THIS MAY INCLUDE, BUT IS NOT LIMITED TO PERMITTING, SAMPLING AND REPORTING REQUIREMENTS.
- SUBSOIL AND SURFACE DRAINAGE SHALL BE CONNECTED TO THE NEAREST STORM DRAIN OR WATERCOURSE, AS APPROVED BY THE APPROPRIATE AUTHORITY.
- ALL FEDERAL AND STATE OSHA SAFETY STANDARDS MUST BE FOLLOWED DURING SEWER INSTALLATION AND TESTING, INCLUDING 29 CFR 1926.650 1926.652, THAT ADDRESS EXCAVATION WORK AND REQUIREMENTS FOR PROTECTIVE SYSTEMS.
- THE CONTRACTOR SHALL FURNISH TO THE ENGINEER A MATERIALS LIST, FOR REVIEW AND APPROVAL, PRIOR TO THE INSTALLATION OF THE PROPOSED SEWER.
- ELEVATIONS ARE BASED ON NAVD 88 DATUM.
- ALL SEWER PIPE AND APPURTENANCES SHALL BE STAKED (SURVEYED) OUT BY A PROFESSIONAL SURVEYOR LICENSED IN THE STATE OF CONNECTICUT. THE SURVEY SHALL INCLUDE AN OFFSET LINE EVERY EVEN FIFTY FEET (50'0"), BENCHES AND CUT SHEETS.
- ANY PROPOSED WATER MAINS SHALL BE INSTALLED AFTER THE SANITARY SEWER.
- WHENEVER POSSIBLE THE SANITARY SEWER SHALL BE LOCATED A MINIMUM OF TEN FEET (10'0") HORIZONTALLY FROM ANY EXISTING OR PROPOSED WATER MAIN. WHEN LOCAL CONDITIONS PREVENT THIS A LESSER DISTANCE IS ALLOWED IF (A) THE WATER MAIN IS IN A SEPARATE TRENCH, OR (B) IT IS LOCATED IN THE SAME TRENCH TO ONE SIDE ON A BENCH OF UNDISTURBED EARTH WITH AT LEAST TWELVE INCHES (12"), AND PREFERABLY EIGHTEEN INCHES (18") HORIZONTAL SEPARATION BETWEEN THE EDGES OF THE SEWER PIPE AND THE WATER MAIN. IN EITHER CASE, THE BOTTOM OF THE WATER MAIN SHALL BE EIGHTEEN INCHES ABOVE THE CROWN OF THE SEWER PIPE.
- ANY CONFLICT BETWEEN THE PROPOSED SANITARY SEWER, EXISTING OR PROPOSED UTILITIES AND/OR STORM DRAINS WILL BE RESOLVED AT THE EXPENSE OF THE DEVELOPER.
- ROADWAYS REQUIRING FILL SHALL HAVE A MINIMUM OF THREE FEET (3'0") OF ACCEPTABLE FILL PLACED ABOVE THE TOP OF THE PROPOSED PIPE ELEVATION OR TO ESTABLISHED GRADE, AND COMPACTED TO 95% DENSITY PRIOR TO INSTALLATION OF THE SANITARY SEWER.
- TRENCH BACKFILL UNDER ROADWAYS AND WALKWAYS SHALL BE BANK RUN GRAVEL, SAND, OR ACCEPTABLE NATURAL SOIL, SATISFACTORY TO THE TOWN, CITY AND/OR STATE AUTHORITY HAVING JURISDICTION.
- PRIOR TO PLACING BACKFILL, THE CRUSHED STONE FOUNDATION AND THE STONE HAUNCHING ALONG THE MAIN SEWER PIPES AND LATERALS SHALL BE WRAPPED IN A DISTRICT APPROVED FILTER FABRIC AND SHALL BE LAPPED CLOSED AT THE TOP A MINIMUM OF ONE FOOT (1'0"). THE FILTER FABRIC SHALL BE PLACED UNDER THE CRUSHED STONE FOUNDATION FOR MANHOLES AND EXTENDED ABOVE THE PIPE.
- AFTER PLACING APPROXIMATELY TWO FEET (2'0") OF BACKFILL OVER ALL SEWER PIPING, THE CONTRACTOR SHALL PLACE A SIX-INCH WIDE STRIP OF DURABLE, NON-DETECTABLE COLOR CODED (GREEN FOR SANITARY SEWER AND STORM SEWER) UNDERGROUND UTILITY LOCATION TAPE IMPRINTED WITH AN APPROPRIATE WARNING INDICATING THE PRESENCE OF THE BURIED UTILITY CONDUIT.
- THE CONTRACTOR IS RESPONSIBLE, AT HIS OWN EXPENSE, FOR VERIFYING FIELD COMPACTION OF BACKFILL UTILIZING AASHTO T180 METHOD D. TEST RESULTS MAY BE REQUIRED BY THE METROPOLITAN DISTRICT.
- TEMPORARY AND PERMANENT PAVING RESTORATION SHALL BE IN ACCORDANCE WITH DISTRICT AND/OR TOWN AND/OR STATE SPECIFICATIONS.
- THE SEWER LINE SHALL BE TESTED FOR LEAKAGE USING LOW PRESSURE AIR IN ACCORDANCE WITH SPECIFICATIONS FURNISHED BY THE METROPOLITAN DISTRICT. ANY SECTION OF PIPELINE FAILING THE TEST SHALL BE REPAIRED OR REPLACED AND RETESTED BEFORE INDIVIDUAL BUILDING CONNECTIONS WILL BE PERMITTED.
- CLOSED CIRCUIT TELEVISION (CCTV) INSPECTION(S) SHALL BE DONE BY THE CONTRACTOR UPON COMPLETION OF THE SEWER, AND AGAIN AT THE END OF THE ONE-YEAR MAINTENANCE PERIOD AT THE DEVELOPER'S EXPENSE. A DISTRICT REPRESENTATIVE SHALL BE PRESENT DURING THE INSPECTIONS.
- ALL SANITARY SEWER LATERALS SHALL BE A MINIMUM OF SIX INCHES (6") IN DIAMETER AND SHALL BE INSTALLED AT NOT LESS THAN TWO PERCENT (2%) GRADE. THE MAXIMUM GRADE ALLOWED SHALL BE TEN PERCENT (10%). LATERALS TO THE EDGE OF THE RIGHT-OF-WAY OR EASEMENT SHALL BE BUILT IN CONJUNCTION WITH THE MAIN SEWER CONSTRUCTION.
- APPROVAL FOR THE SEWER IS FOR THE MAIN LINE ONLY. CONNECTIONS FROM THE LATERALS AT THE EDGE OF THE RIGHT-OF-WAY OR THE EDGE OF THE EASEMENT TO THE BUILDING(S) SHALL BE CONSTRUCTED UNDER INDIVIDUAL HOUSE CONNECTION PERMITS ISSUED BY THE CUSTOMER SERVICE DEPARTMENT OF THE METROPOLITAN DISTRICT, LOCATED AT 60 MURPHY ROAD, HARTFORD, CONNECTICUT.



**DETAIL OF SANITARY FORCE  
MAIN CLEAN-OUT & CURB STOP**

NOT TO SCALE





NOTES:

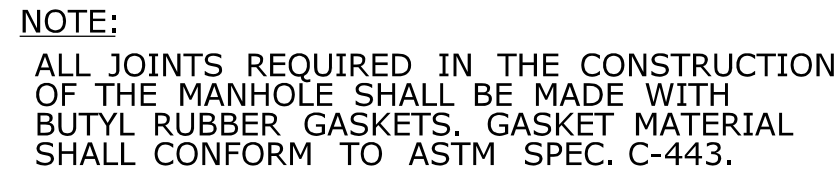
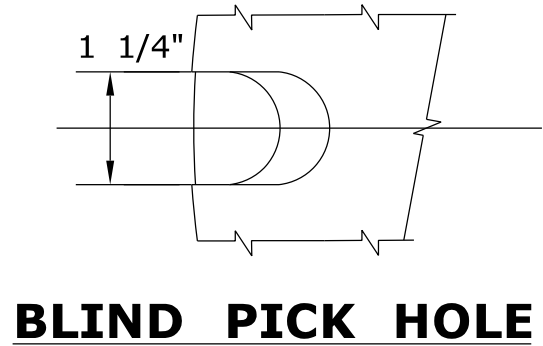
- REINFORCING STEEL NOT SHOWN. STEEL REINFORCEMENT SHALL BE A.S.T.M. C-478.
- CONCRETE MIN STRENGTH 4000 P.S.I. IN 28 DAYS. CONSTRUCTION JOINT SHALL BE SEALED WITH BUTYL RUBBER GASKET.

**TYPICAL VACUUM AND AIR  
RELIEF VALVE MANHOLE**

NOT TO SCALE

-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: <b>SAH</b>	 <b>STATE OF CONNECTICUT</b> <b>DEPARTMENT OF TRANSPORTATION</b>	SIGNATURE/ BLOCK:  Kleinfelder 500 Enterprise Drive, Suite 4B Rocky Hill, CT 06067	PROJECT TITLE:  <b>REPAIR FACILITY</b>	TOWN:  <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b>
-	-	-	-		CHECKED BY: <b>AGB</b>				DRAWING NO. <b>C-026</b>	
-	-	-	-		SCALE AS NOTED				SHEET NO. <b>05.26</b>	
-	-	-	-							
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 10/11/2014		Filename: ...\\FD_MSH_DET_0118_0167_C026.dgn				





NO HOLE GASKETED COVER FOR SMH BRICK

PLASTIC MANHOLE STEP

12" MIN. TO 16" MAX.

VARIES TO 18"

6"

3'-0"

8"

4'-0" MIN.

12" TYP

5" MIN.

C

B

16" MAX

FLOW

PIPE CONNECTION AND SEAL

EXTEND STONE TO THE TOP OF MH BASE

REINFORCED PRECAST REINFORCED MH CONE IF TOP SLAB USED IN PLACE OF CONE SECTION (WITH ENGINEERS APPROVAL) IT SHALL CONFORM TO ASTM C478

REINFORCED CONCRETE MANHOLE SECTIONS

BRICK OR CONCRETE WATER TABLE

PRECAST MH BASE

12" OF 3/4" CRUSHED STONE FOUNDATION

FILTER FABRIC WRAP

**SECTION A-A**

**SECTION B-B**

- NOTES:
- MAXIMUM SIZE OF PIPE TO BE INSTALLED IN A 4'-0" TYPE II MANHOLE TO BE 18"
- MAXIMUM DEPTH OF R.C. PIPE MANHOLES WITH 5" THICK WALL IS 30 FT.
- BUTYL RUBBER GASKETS USED FOR JOINTS SHALL CONFORM TO ASTM SPEC. C433
- ALL PRECAST MANHOLE BASES SHALL COMPLY WITH THE "MINIMUM REQUIREMENTS FOR 48" DIAMETER PRECAST MANHOLE BASE"

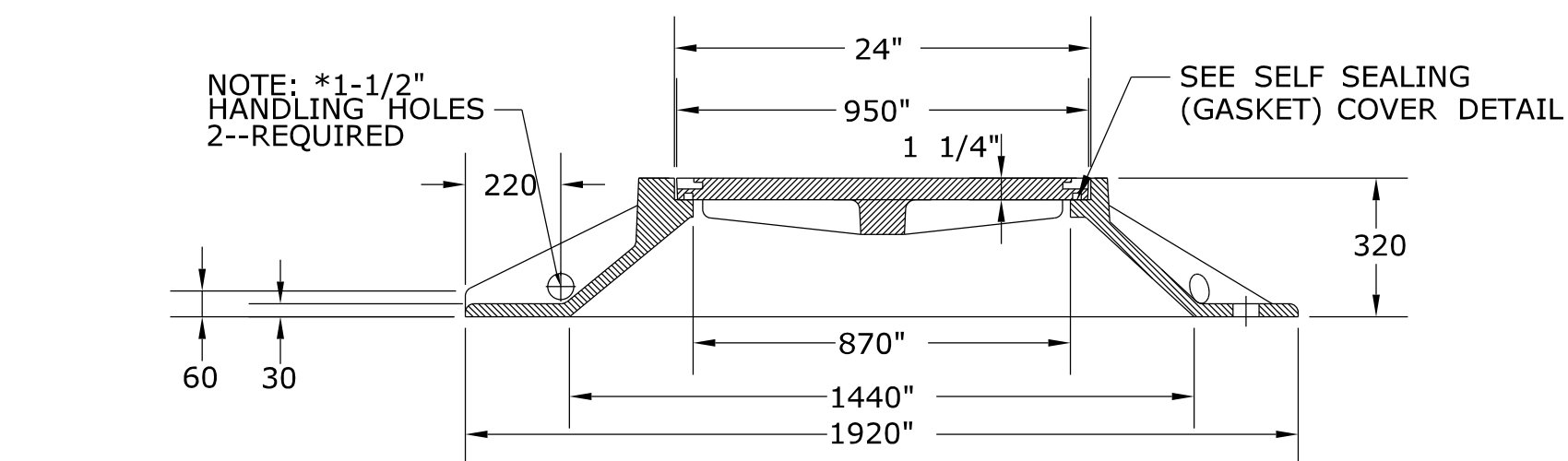
The diagram illustrates a water pressure test setup for a roof drain assembly. A 'FORCE MAIN' pipe enters from the left and connects to a 'TEST PLATE' which has an 'AIR VENT AT TOP'. From the test plate, a 'HIGH PRESSURE HOSE, PIPE OR TUBING' runs horizontally to the right. This hose is connected to a 'PRESSURE GAGE VALVE' and then to a 'PLUMBERS PUMP'. The pump is connected via a 'HOSE' to a 'DRUM OF WATER (WITH DYE)'. The water hose from the pump also passes through a 'UNION' and a 'DISCHARGE MANHOLE' before entering the drum. Labels with leader lines identify each component: AIR VENT AT TOP, FORCE MAIN, TEST PLATE, HIGH PRESSURE HOSE, PIPE OR TUBING, PRESSURE GAGE VALVE, PLUMBERS PUMP, HOSE, DRUM OF WATER (WITH DYE), UNION, and DISCHARGE MANHOLE.

NOTES:

1. BE SURE ALL TEST

NOTES:

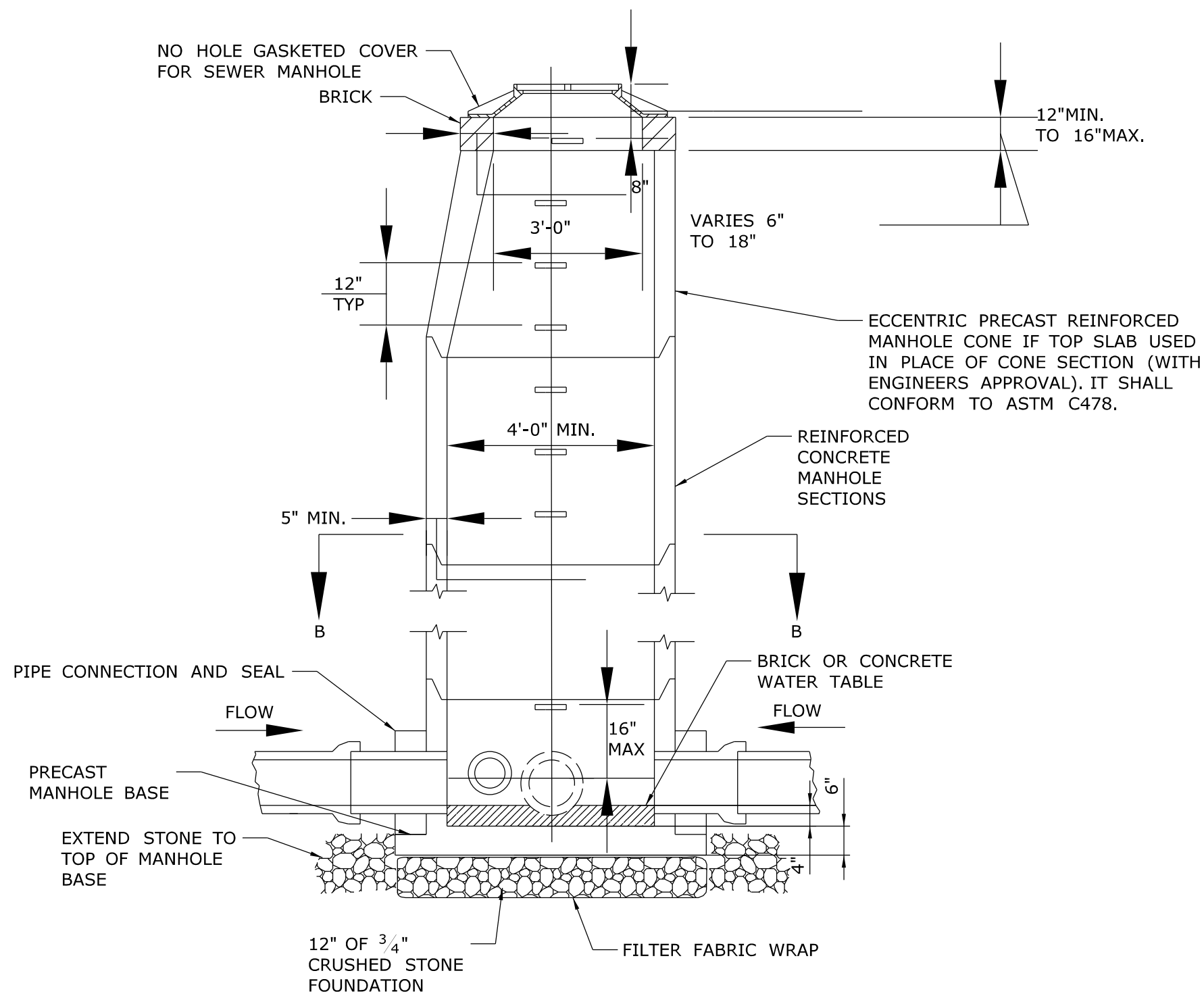
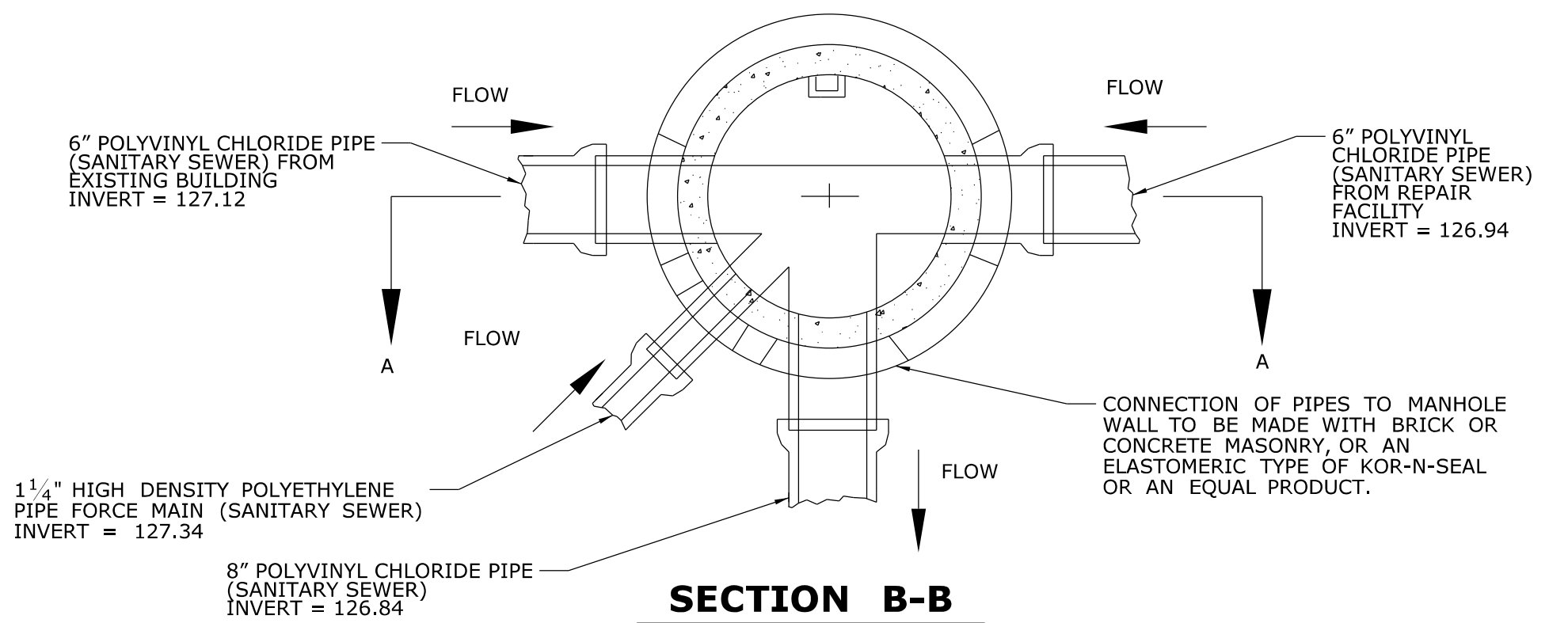
1. BE SURE ALL TEST PIPE, HOSE AND FITTINGS ARE TIGHT AT THE JOINTS. CHECK JOINTS WITH SOAP SOLUTION.
2. BE SURE THE VALVE BETWEEN PRESSURE GAGE AND PUMP IS TIGHT: IF NOT, DISCONNECT AT PUMP AND CAP OR PLUG.



FRAME WEIGHT: 427 LBS  $\pm 3\%$

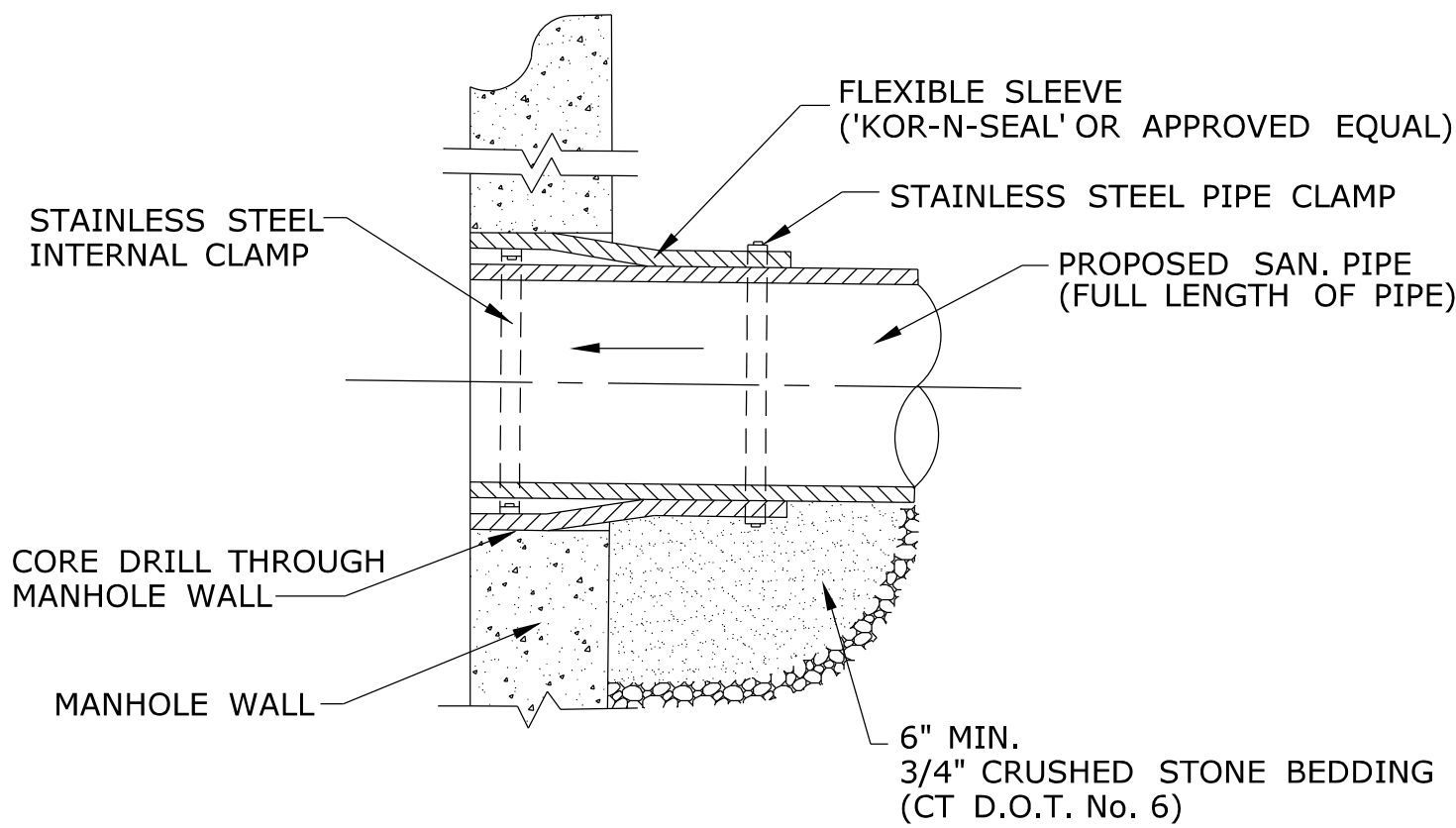
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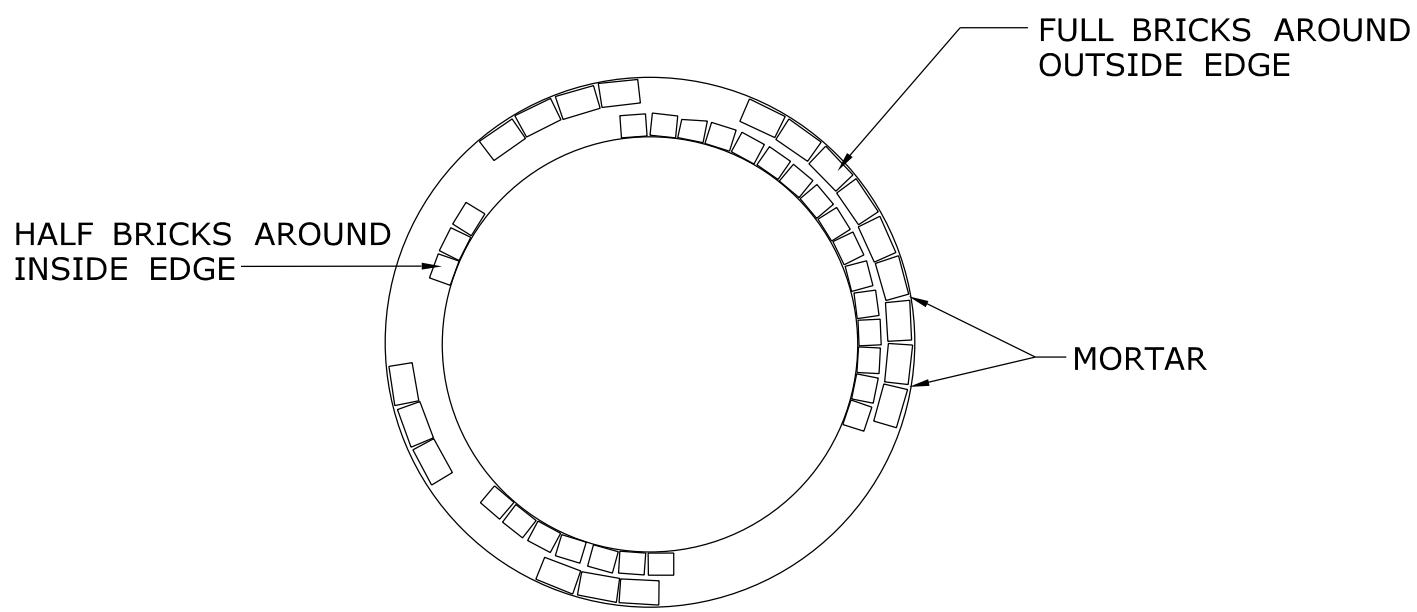
- NOTES:
1. MAXIMUM DEPTH OF R.C. PIPE MANHOLES WITH 5" THICK WALL IS 30 FT.
  2. BUTYL RUBBER GASKETS USED FOR JOINTS SHALL CONFORM TO ASTM SPEC. C433
  3. ALL PRECAST MANHOLE BASES SHALL COMPLY WITH THE "MINIMUM REQUIREMENTS FOR 48" DIAMETER PRECAST MANHOLE BASE"

**TYPE II PRECAST MANHOLE  
BEFORE PUMPING STATION  
(SANITARY SEWER)**  
NOT TO SCALE

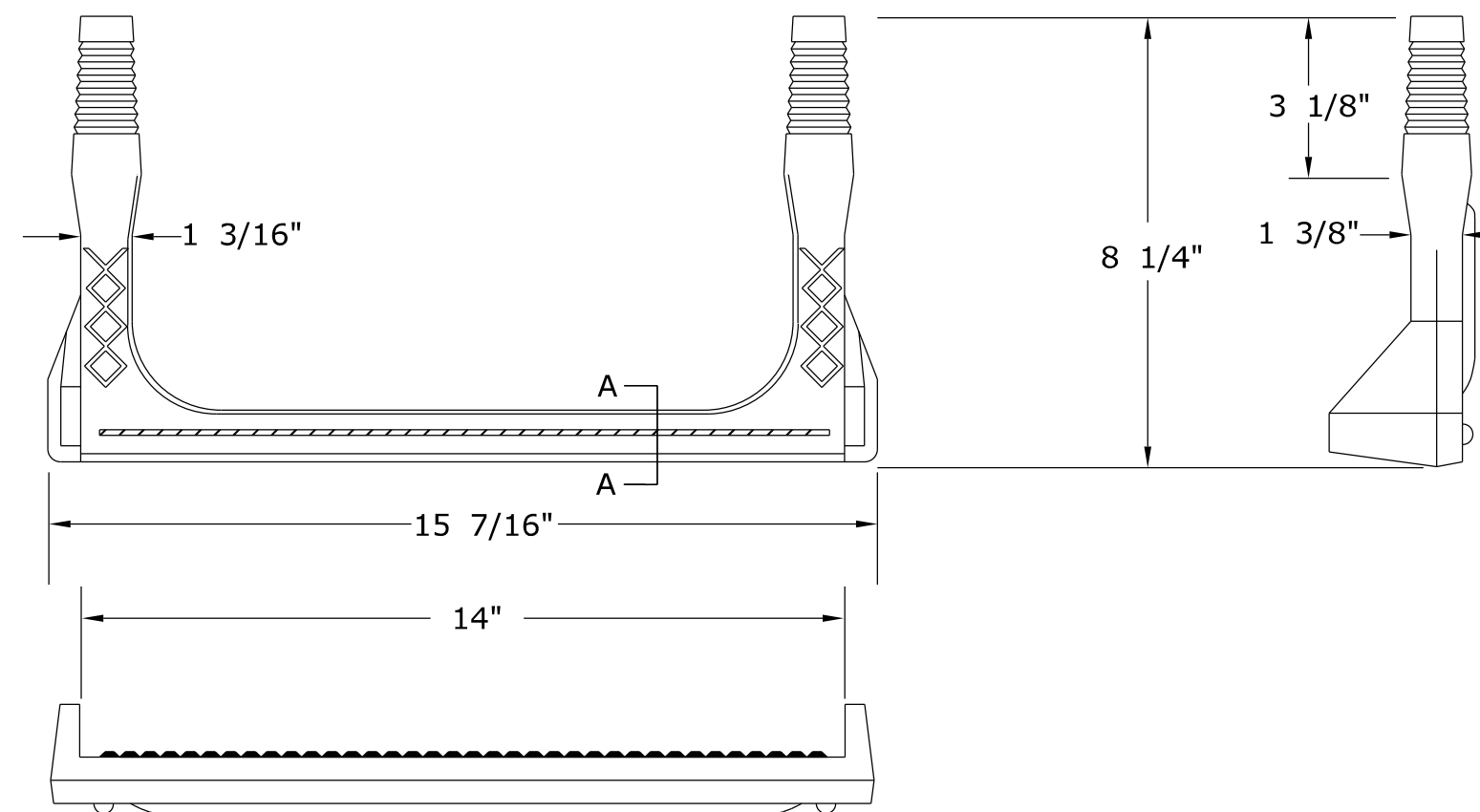


NOTE:  
ALL STRAPS AND BOLTS TO BE STAINLESS STEEL

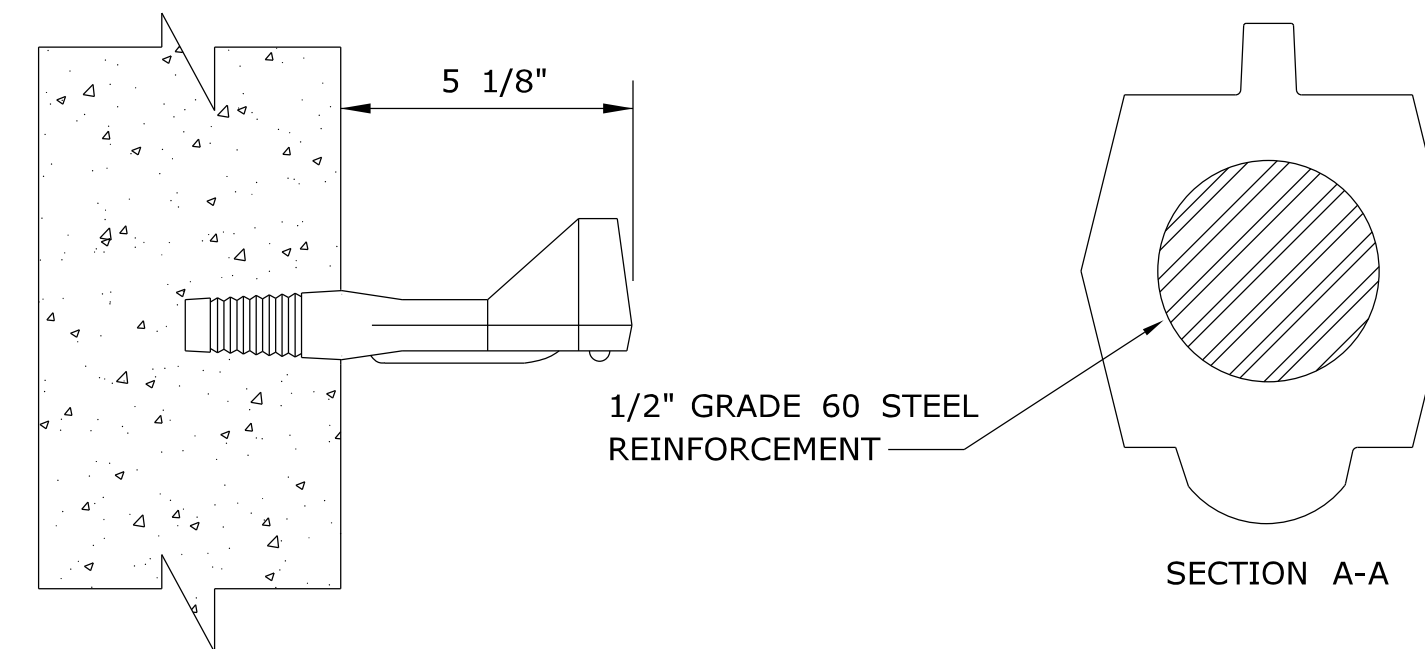
**TYPICAL MANHOLE SLEEVE DETAIL**



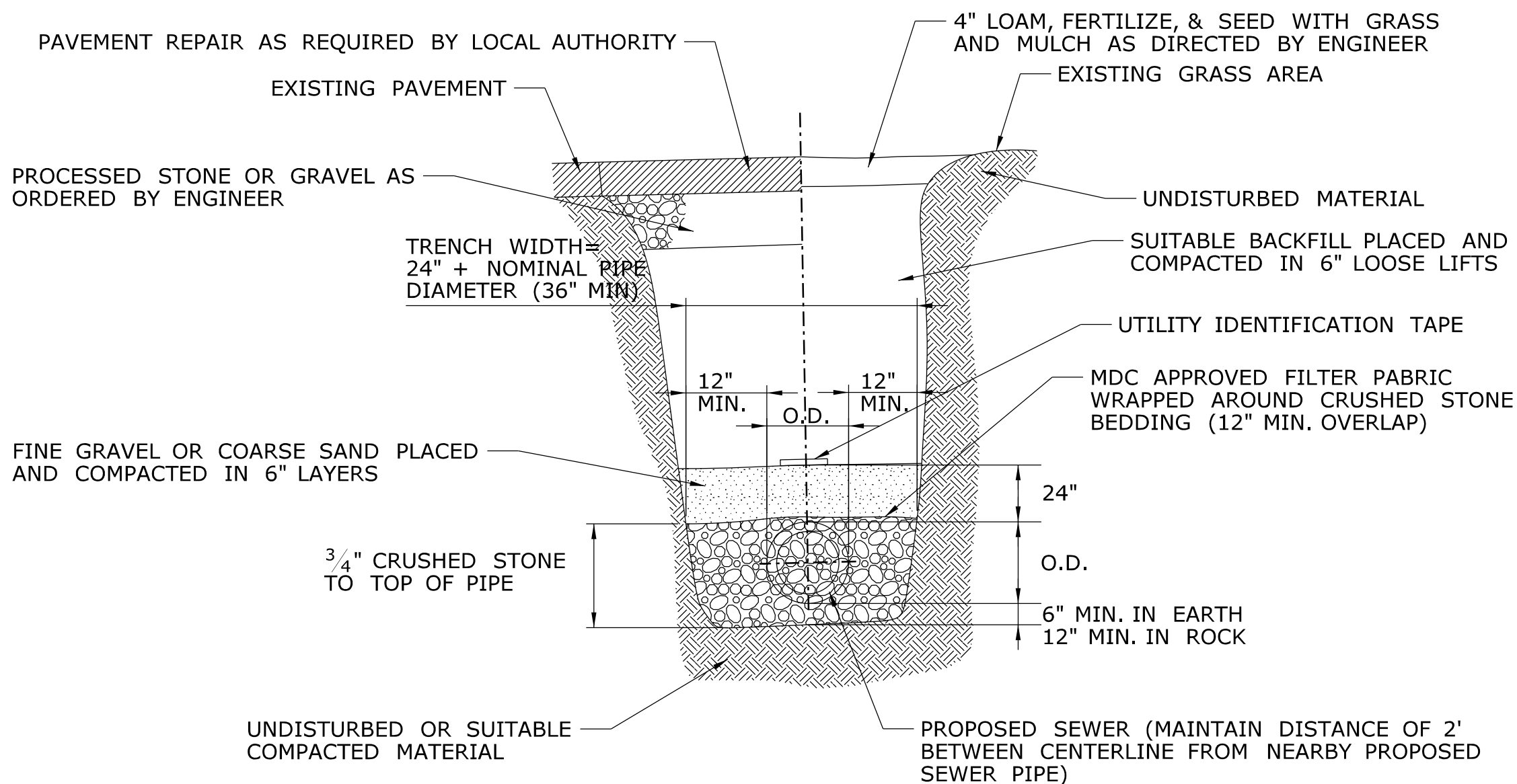
**BRICK LEVELING COURSE FOR MANHOLE**  
NOT TO SCALE



**COPOLYMER POLYPROPYLENE PLASTIC**  
NOT TO SCALE




**PLASTIC MANHOLE STEP**  
(FOR INSTALLATION IN PRE-CAST CONCRETE)  
NOT TO SCALE




**SEWER TRENCH SECTION**  
NOT TO SCALE

-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.
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REV.	DATE	REVISION DESCRIPTION	SHEET NO.	Plotted Date: 10/12/2014

DESIGNER/DRAFTER:  
**SAH**  
CHECKED BY:  
**AGB**  
SCALE AS NOTED

 **STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION**

Signature/Block:  Kleinfelder  
500 Enterprise Drive,  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

Filename: ...\\FD\_MSH\_DET\_0118\_0167\_C028.dgn

TOWN:  
**ROCKY HILL**

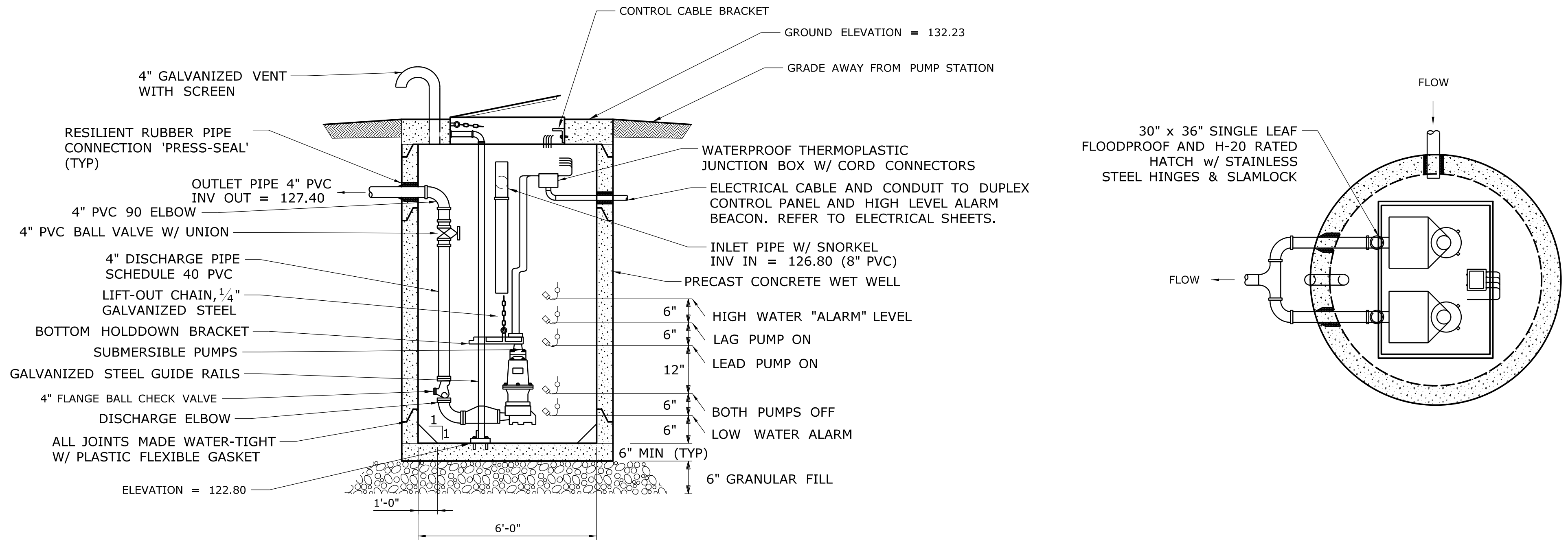
DRAWING TITLE:  
**SANITARY SEWER  
DETAILS - 3**

PROJECT NO.  
**118-167**

DRAWING NO.  
**C-028**

SHEET NO.  
**05.28**

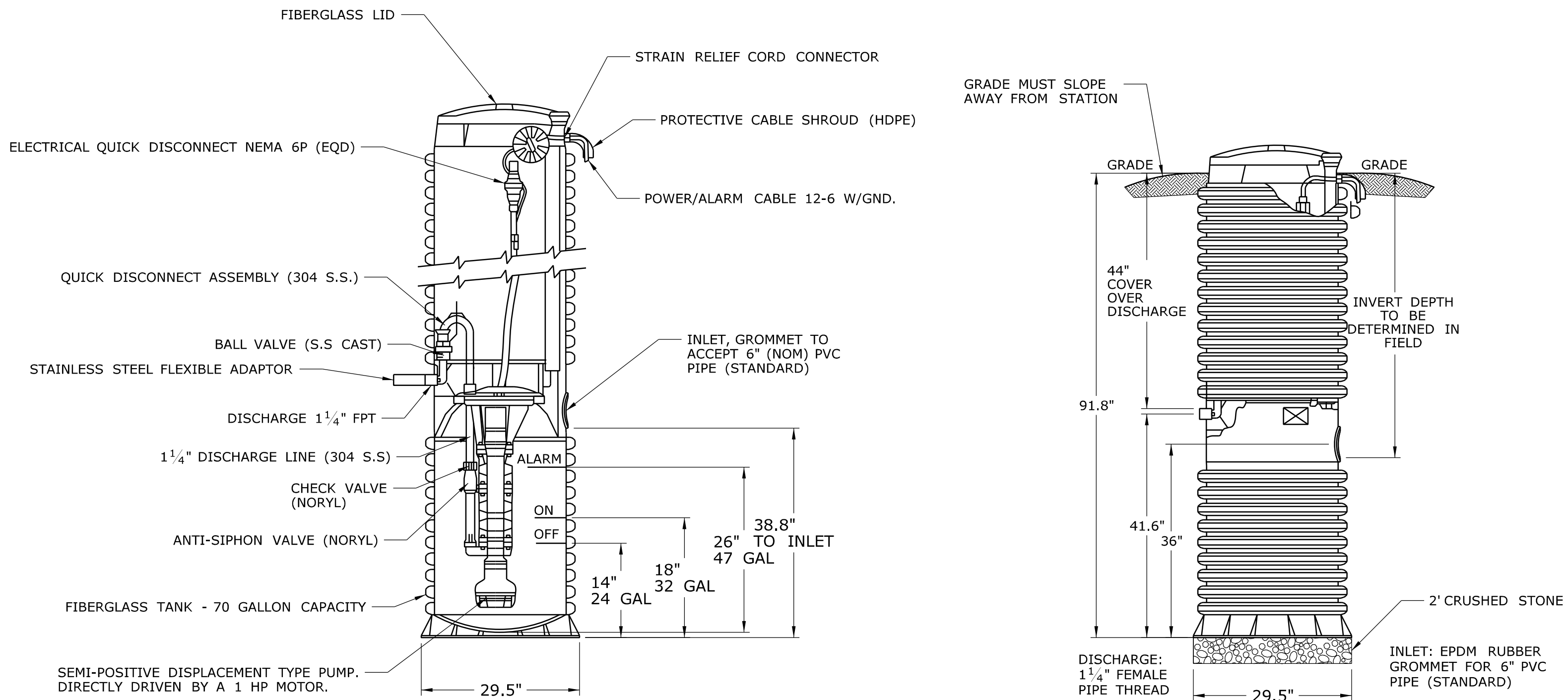




ELEVATION

PUMPING STATION (SANITARY SEWER)

NOT TO SCALE





SANITARY PUMP STATION NO. 1

NOT TO SCALE

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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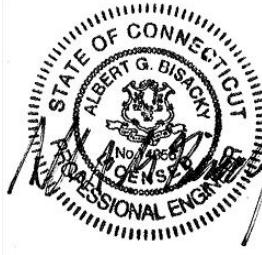
DESIGNER/DRAFTER: <b>SAH</b>
CHECKED BY: <b>AGB</b>
NOT TO SCALE

**STATE OF CONNECTICUT  
DEPARTMENT OF TRANSPORTATION**



Filename: ...\\FD\_MSH\_DET\_0118\_0167\_C029.dgn

SIGNATURE/  
BLOCK:



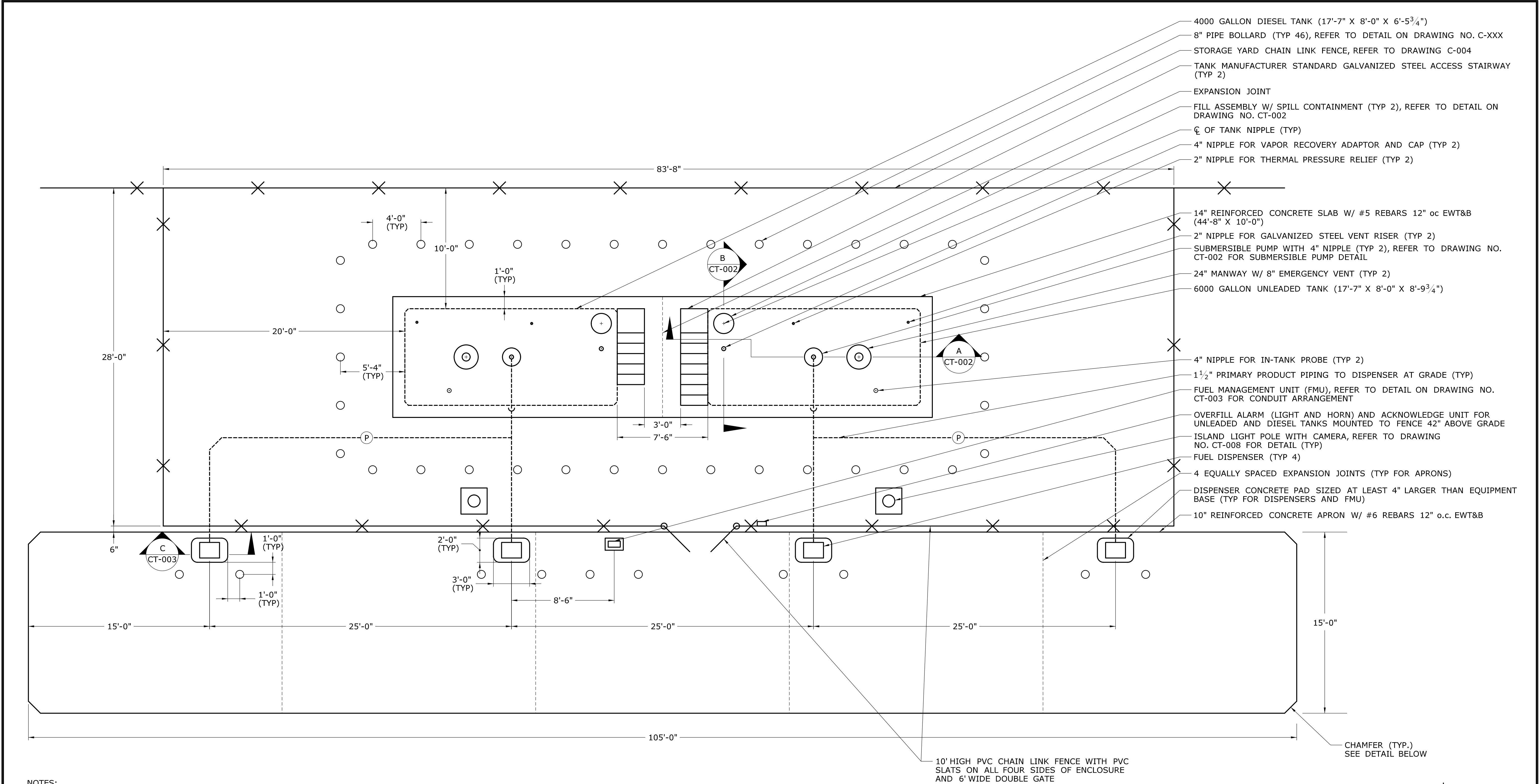
Kleinfelder  
500 Enterprise Drive,  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE: <b>REPAIR FACILITY</b>
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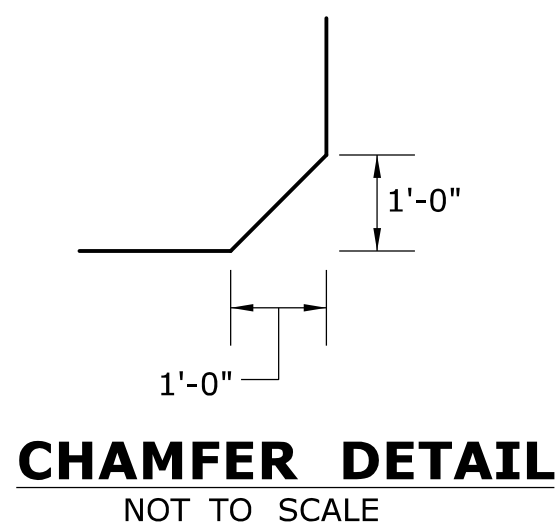
TOWN: <b>ROCKY HILL</b>
DRAWING TITLE: <b>SANITARY SEWER DETAILS - 4</b>

PROJECT NO. <b>118-167</b>
DRAWING NO. <b>C-029</b>
SHEET NO. <b>05.29</b>





- NOTES:
- (P) PRIMARY PRODUCT PIPING
  - 1. THE DESIGNED TANK DIMENSIONS ARE BASED ON CONVAULT. ACTUAL SLAB DIMENSIONS SHALL BE SIZED ON THE APPROVED TANK DIMENSIONS.
  - 2. THE TANK NIPPLE ARRANGEMENT IS BASED ON CONVAULT TANKS. ACTUAL TANK NIPPLE ARRANGEMENT SHALL BE DESIGNED AS NECESSARY BASED ON THE APPROVED TANK MANUFACTURER.
  - 3. REFER TO DRAWING NO. CT-002 FOR MOTOR FUEL TANK DETAILS AND DRAWING NO. CT-003 FOR MOTOR FUEL ISLAND DETAILS.
  - 4. INSTALL SALVAGED "FUEL SYSTEM INFORMATION" SIGN FROM EXISTING FUEL ISLAND AS DIRECTED BY ENGINEER.

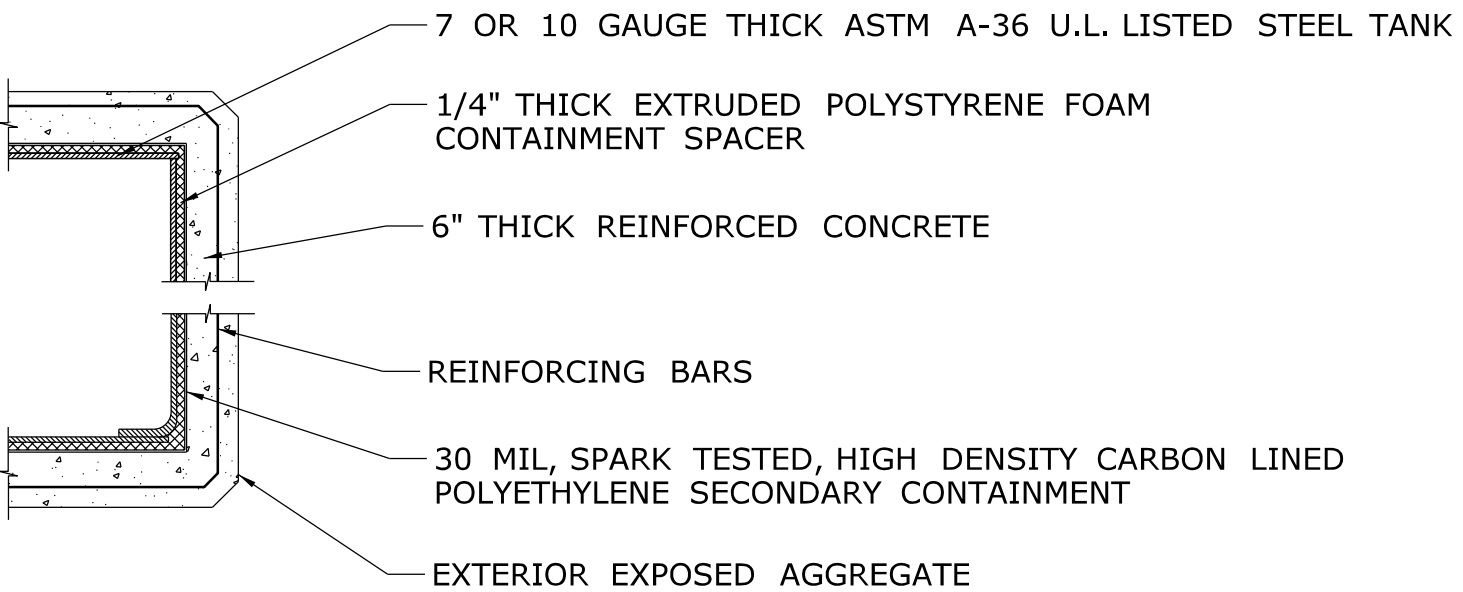


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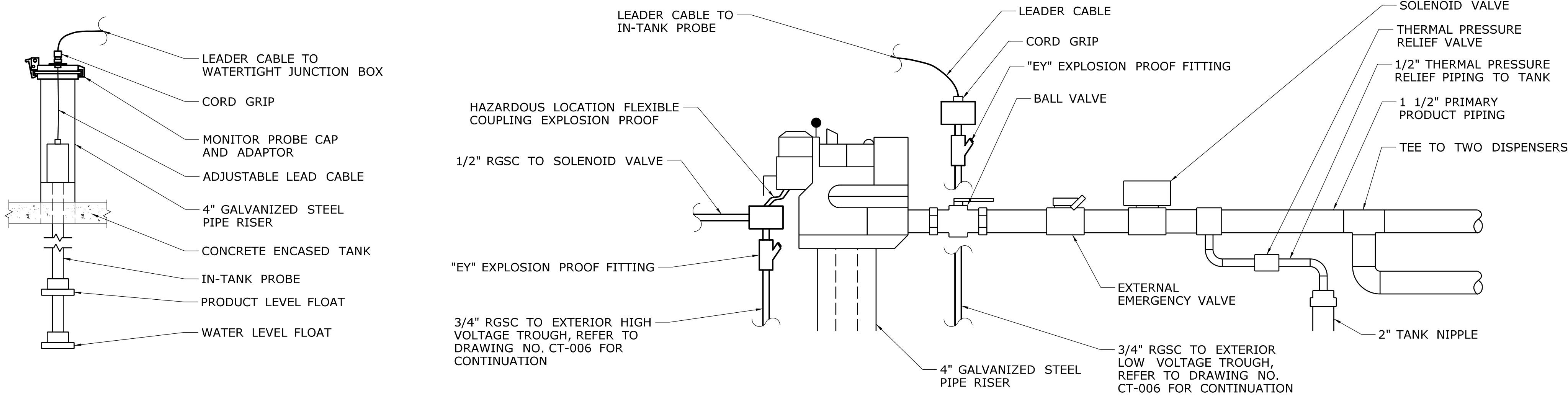


NOTES:

1. THE DESIGNED TANK DIMENSIONS ARE BASED ON CONVAULT. ACTUAL SLAB DIMENSIONS SHALL BE SIZED BASED ON THE APPROVED TANK DIMENSIONS.
2. THE TANK NIPPLE ARRANGEMENT IS BASED ON CONVAULT TANKS. ACTUAL TANK NIPPLE ARRANGEMENT SHALL BE DESIGNED AS NECESSARY BASED ON THE APPROVED TANK MANUFACTURER.
3. ALL CONDUITS SHALL BE PROVIDED WITH EXPLOSION PROOF FITTINGS AND SEALED AS REQUIRED IN ACCORDANCE WITH NFPA 70.

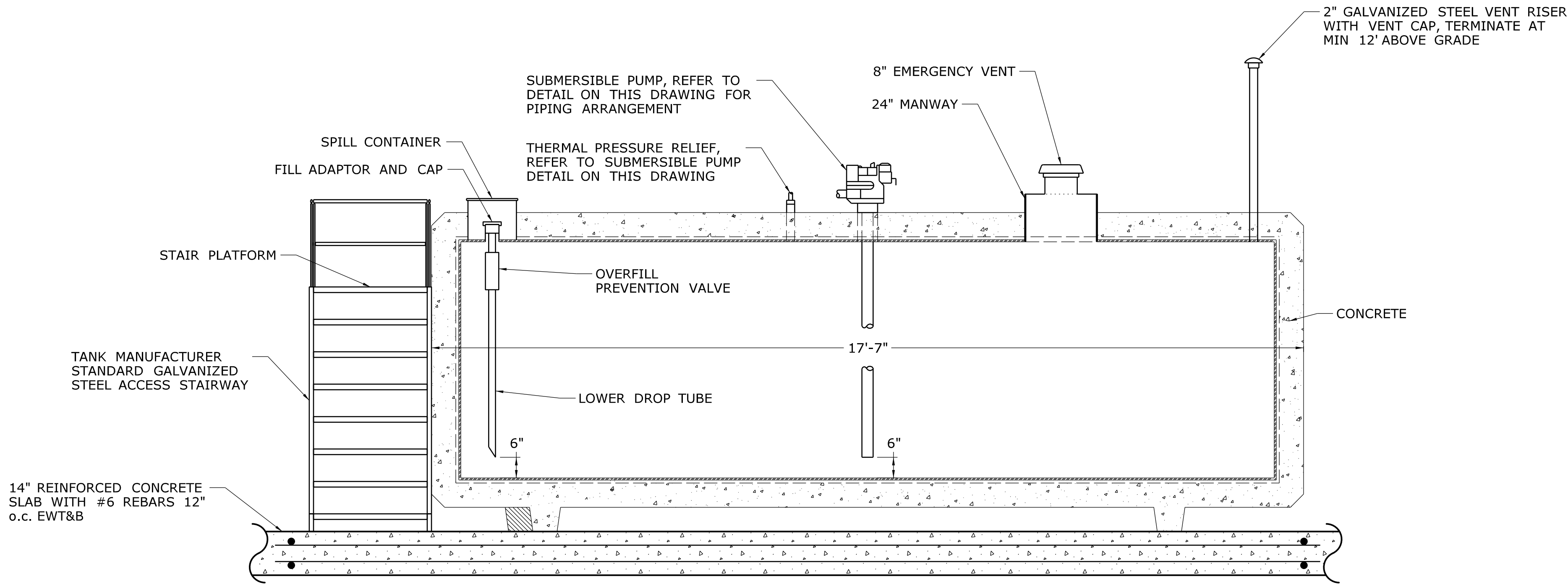


TANK DETAILS



IN-TANK PROBE DETAIL

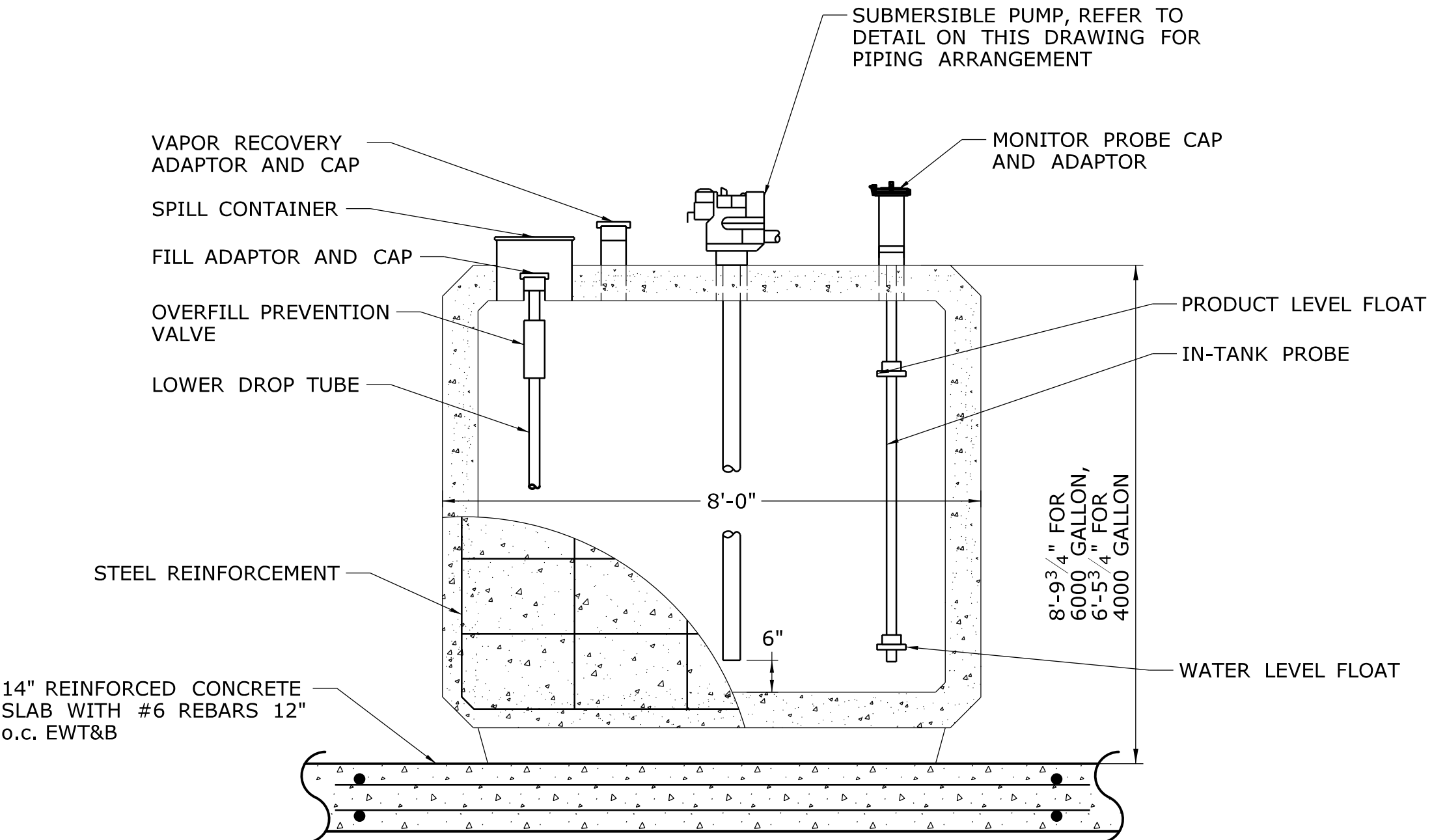
SUBMERSIBLE PUMP DETAIL



SIDE VIEW

A

CT-001



END VIEW

B

CT-001

MOTOR FUEL ABOVEGROUND STORAGE TANK DETAIL

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## IN-TANK PROBE DETAIL

NOT TO SCALE



NOT TO SCALE

	-	-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.
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REV.	DATE	REVISION	DESCRIPTION	SHEET NO.	Plotted Date:	10/11/2014

THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 10/11/2014

SCALE AS NOTED



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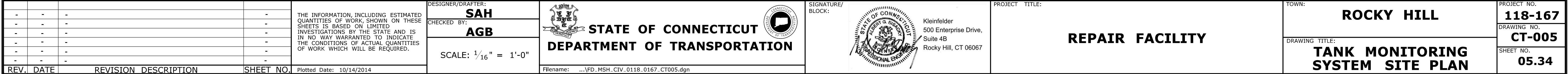
Kleinfelder  
500 Enterprise Drive,  
Suite 4B  
Rocky Hill, CT 06067

## REPAIR FACILITY

## OIL-WATER SEPARATOR

SHEET NO.  
**05.33**



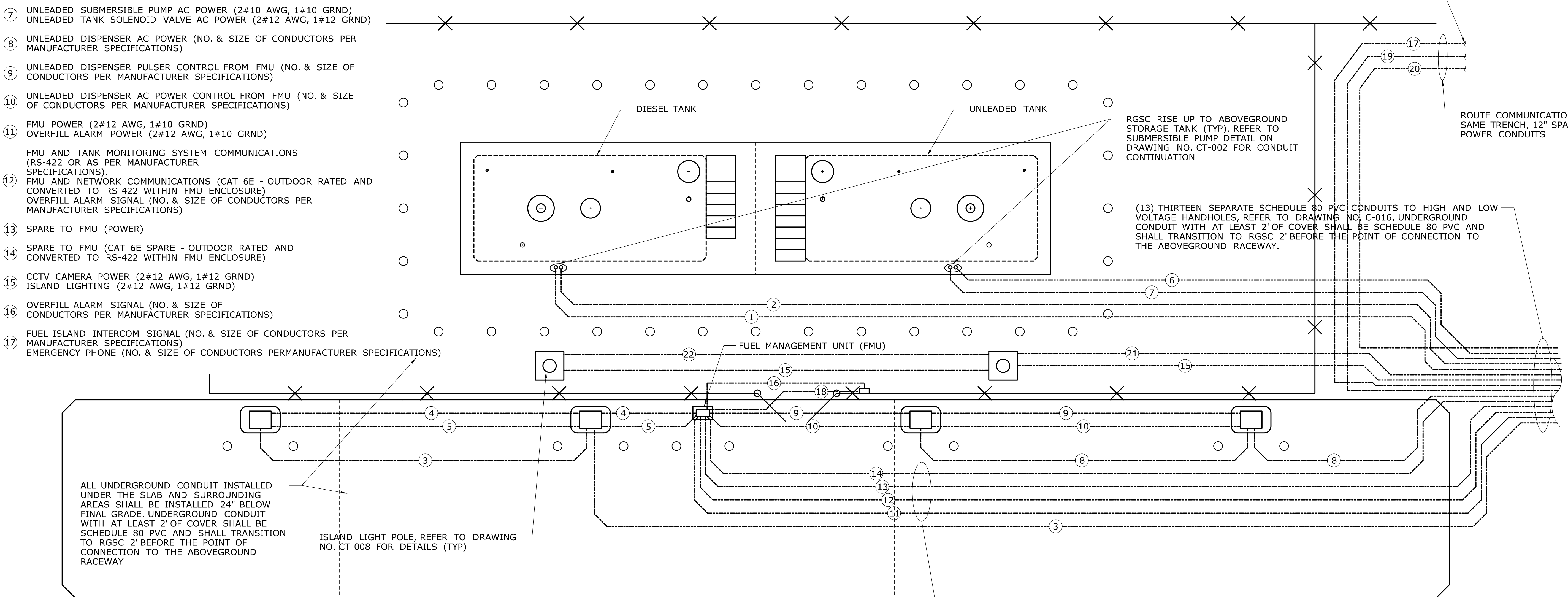




- ① IN-TANK PROBE CONDUCTORS FROM TANK MONITORING SYSTEM TO DIESEL TANK (BELDEN 89182)
- ② DIESEL SUBMERSIBLE PUMP AC POWER (2#10 AWG, 1#10 GRND)  
DIESEL TANK SOLENOID VALVE AC POWER (2#12 AWG, 1#12 GRND)
- ③ DIESEL DISPENSER AC POWER (NO. & SIZE OF CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
- ④ DIESEL DISPENSER PULSER CONTROL FROM FMU (NO. & SIZE OF CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
- ⑤ DIESEL DISPENSER AC POWER CONTROL FROM FMU (NO. & SIZE OF CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
- ⑥ IN-TANK PROBE CONDUCTORS FROM TANK MONITORING SYSTEM TO UNLEADED TANK (BELDEN 89182)

- ① IN-TANK PROBE CONDUCTORS FROM TANK MONITORING SYSTEM TO DIESEL TANK (BELDEN 89182)
- ② DIESEL SUBMERSIBLE PUMP AC POWER (2#10 AWG, 1#10 GRND)  
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- ③ DIESEL DISPENSER AC POWER (NO. & SIZE OF CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
- ④ DIESEL DISPENSER PULSER CONTROL FROM FMU (NO. & SIZE OF CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
- ⑤ DIESEL DISPENSER AC POWER CONTROL FROM FMU (NO. & SIZE OF CONDUCTORS PER MANUFACTURER SPECIFICATIONS)
- ⑥ IN-TANK PROBE CONDUCTORS FROM TANK MONITORING SYSTEM TO UNLEADED TANK (BELDEN 89182)

— ROUTE COMMUNICATIONS IN THE  
SAME TRENCH, 12" SPACING FROM  
POWER CONDUITS



(13) THIRTEEN SEPARATE SCHEDULE 80 PVC CONDUITS TO HIGH AND LOW VOLTAGE HANDHOLES, REFER TO DRAWING NO. C-016. UNDERGROUND CONDUIT WITH AT LEAST 2' OF COVER SHALL BE SCHEDULE 80 PVC AND SHALL TRANSITION TO RGSC 2' BEFORE THE POINT OF CONNECTION TO THE ABOVEGROUND RACEWAY.

ALL UNDERGROUND CONDUIT INSTALLED UNDER THE SLAB AND SURROUNDING AREAS SHALL BE INSTALLED 24" BELOW FINAL GRADE. UNDERGROUND CONDUIT WITH AT LEAST 2' OF COVER SHALL BE SCHEDULE 80 PVC AND SHALL TRANSITION TO RGSC 2' BEFORE THE POINT OF CONNECTION TO THE ABOVEGROUND RACEWAY

ISLAND LIGHT POLE, REFER TO DRAWING  
NO. CT-008 FOR DETAILS (TYP)

— COMBINE POWER CONDUCTORS INTO ONE (1) 1" PVC CONDUIT  
COMBINE COMMUNICATION CONDUCTORS INTO ONE (1) 1" PVC CONDUIT

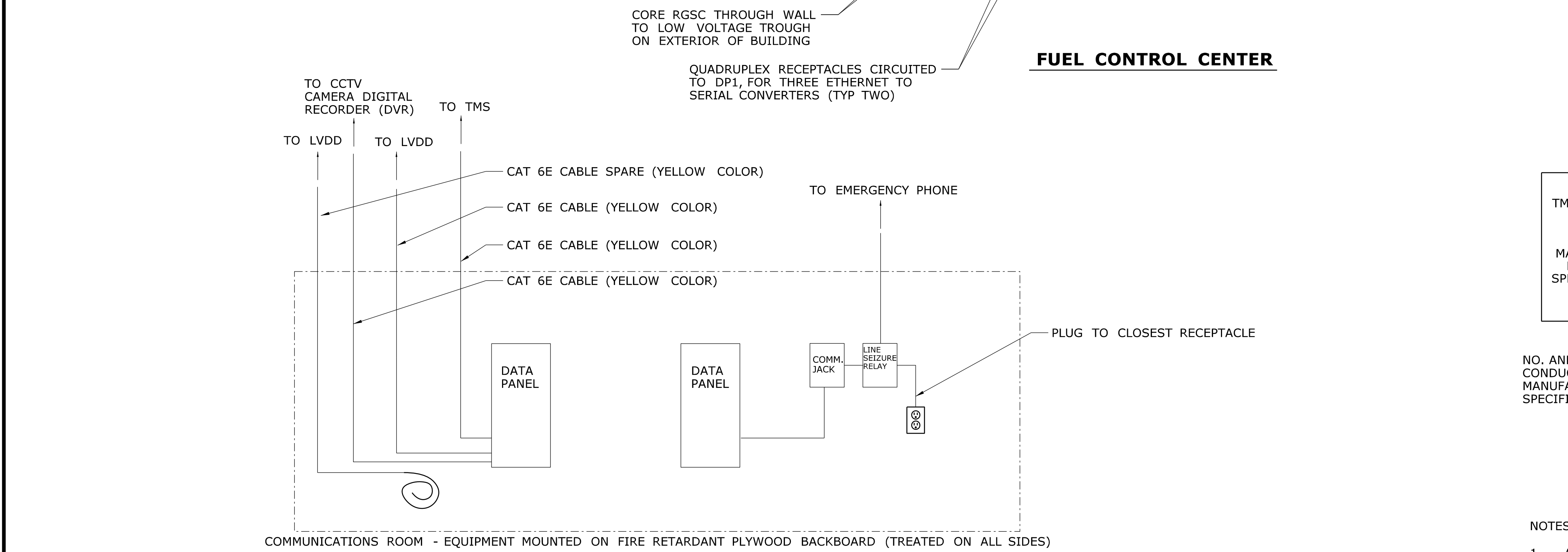
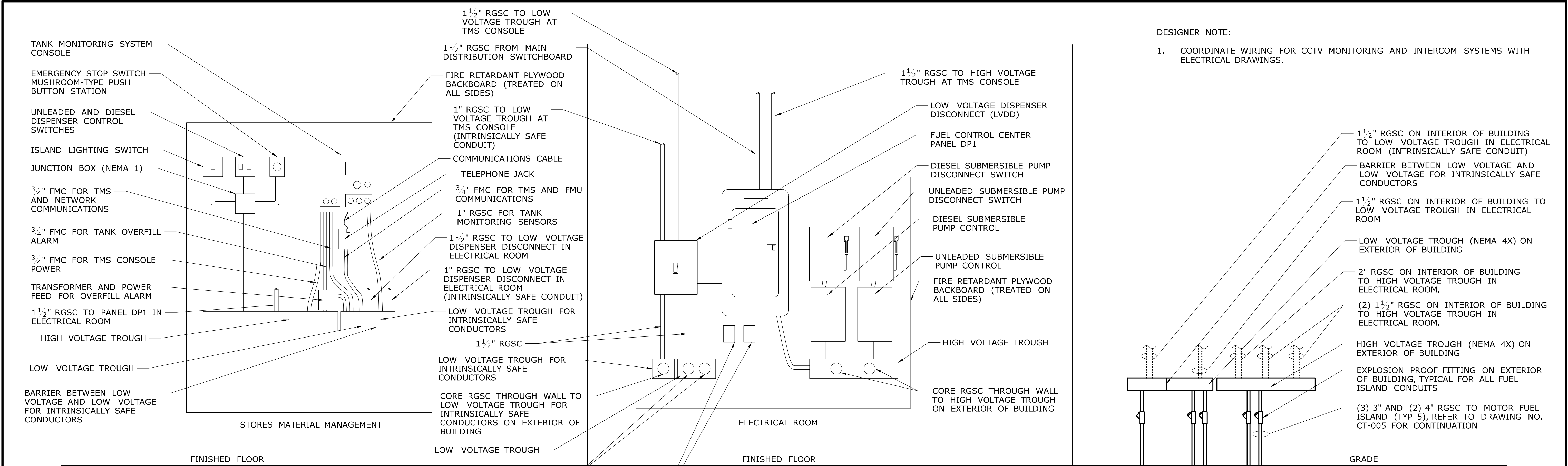
- |    |  |
|----|--|
| 18 | OVERFILL ALARM POWER (2#12 AWG, 1#10 GRND) |
| 19 | INTERCOM POWER (2#12 AWG, 1#10 GRND)       |
| 20 | EMERGENCY POWER OFF PUSHBUTTON (2#4 AWG)   |
| 21 | CCTV CAMERA CONTROL (2 RB-59 COAX CABLES)  |
| 22 | CCTV CAMERA CONTROL (1 RB-59 COAX CABLES)  |

NOTES:

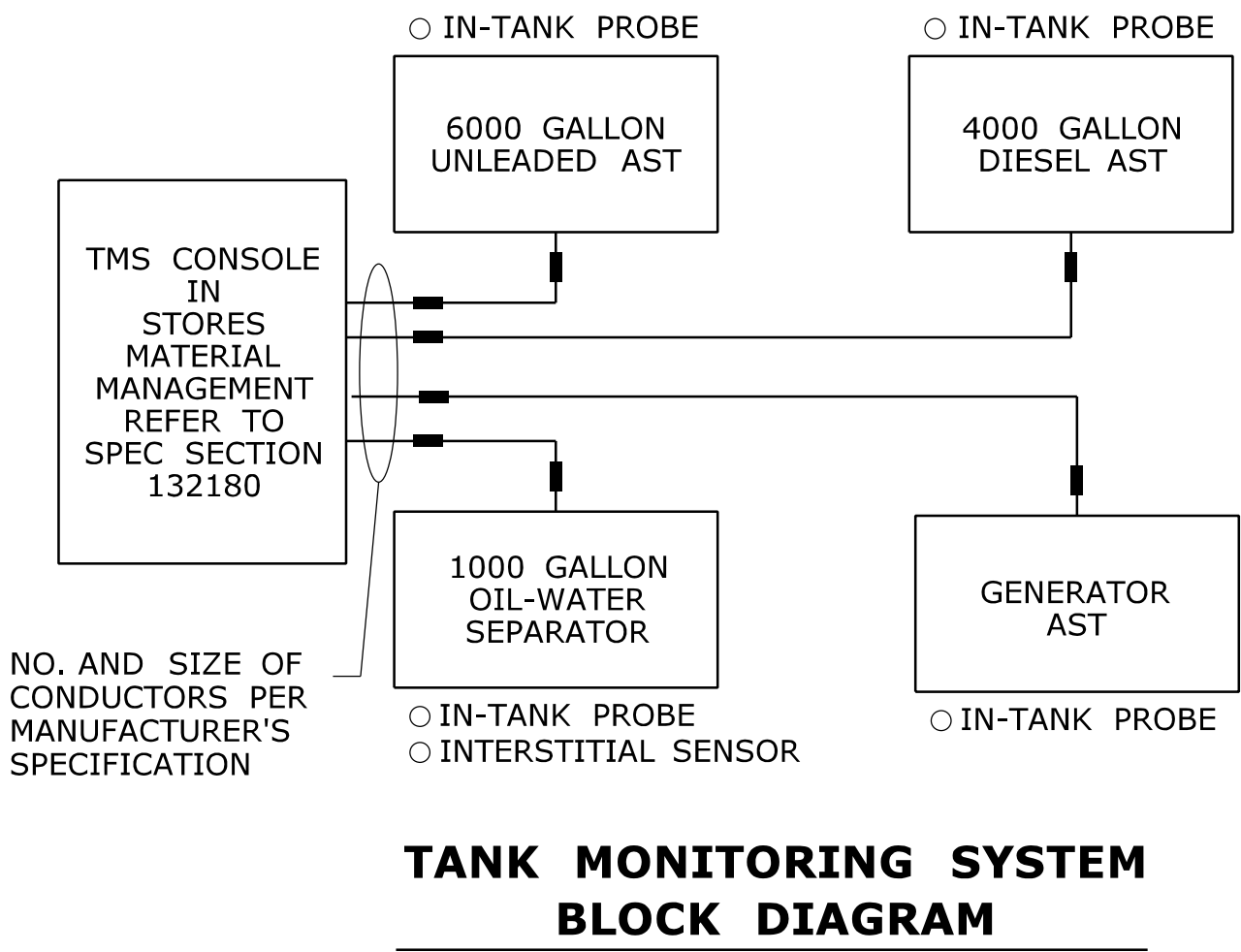
1. ALL CONDUITS SHALL BE PROVIDED WITH EXPLOSION PROOF FITTINGS AND SEALED AS REQUIRED IN ACCORDANCE WITH NFPA 70.
2. REFER TO DRAWING NO. CT-002 FOR MOTOR FUEL TANK AND DRAWING NO. CT-003 FOR MOTOR FUEL ISLAND DETAILS.
3. AT HANDHOLES, TRANSITION TO #4 AWG AND #6 AWG GRND.

[illegible]


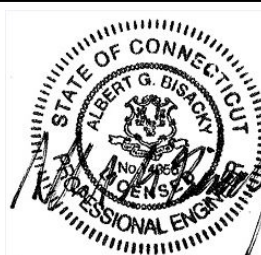




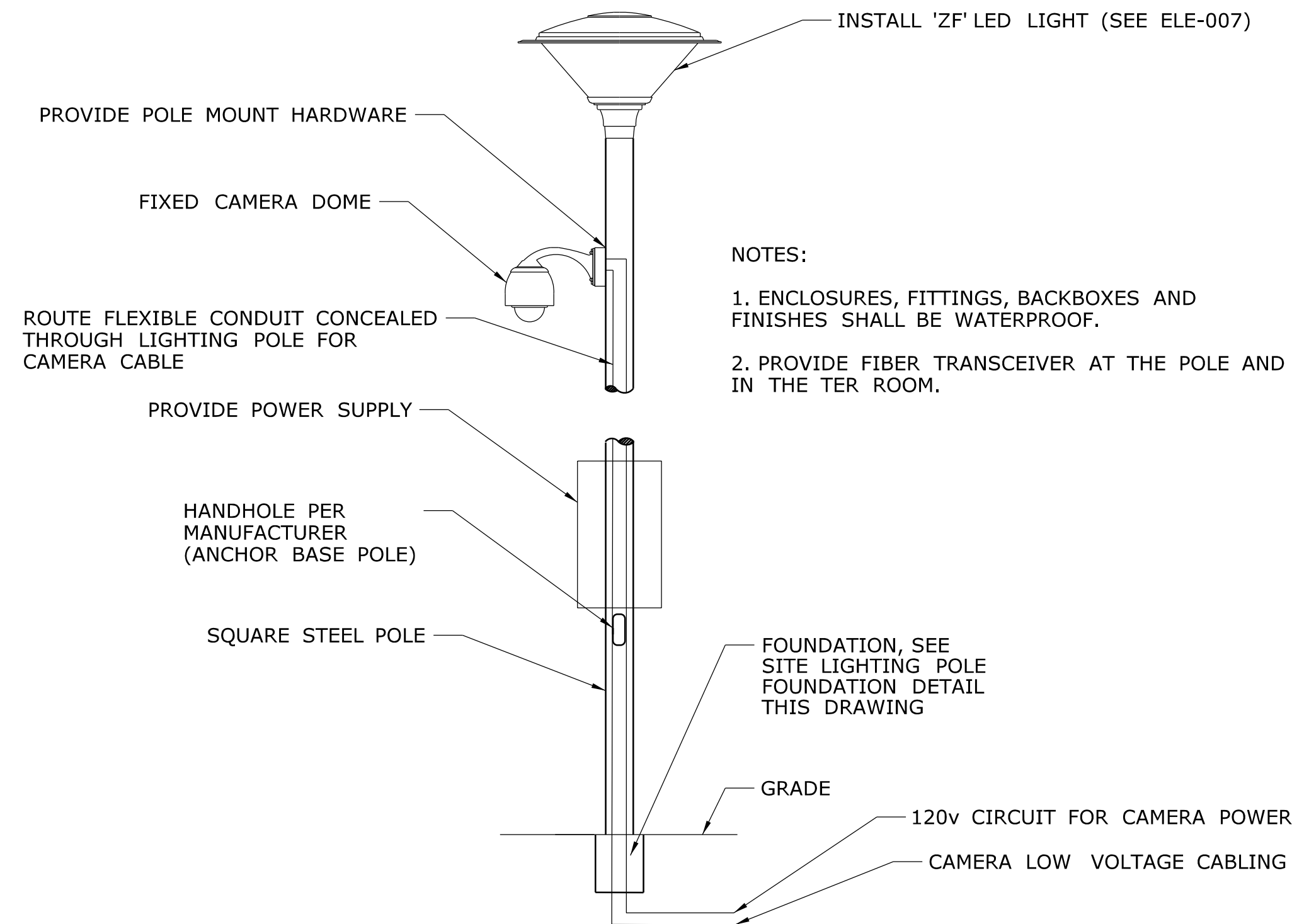
FUEL ISLAND COMMUNICATIONS DIAGRAM



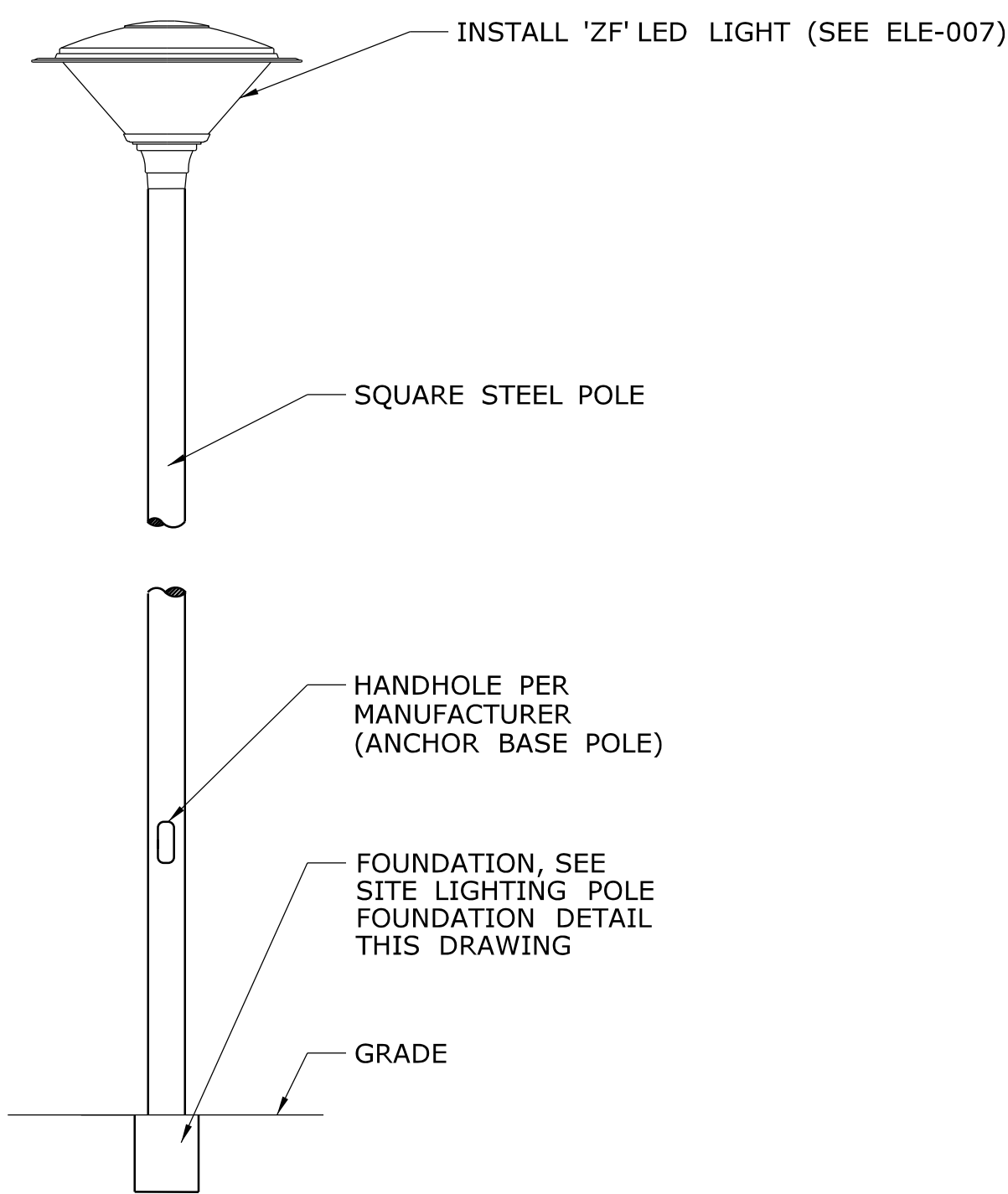
- NOTES:
- ALL CONDUITS SHALL BE PROVIDED WITH EXPLOSION PROOF FITTINGS AND SEALED AS REQUIRED IN ACCORDANCE WITH NFPA 70.
  - MOUNT AND MAKE NECESSARY CONNECTIONS REQUIRED FOR THE NETWORK COMMUNICATION SYSTEM. THE CONTRACTOR SHALL CONTACT MR. DENIS RICHARD AT 860-594-3546 PRIOR TO THE INSTALLATION OF THE COMMUNICATIONS JACKS.

-	-	-	-	THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.	DESIGNER/DRAFTER: <b>SAH</b>	 <b>STATE OF CONNECTICUT DEPARTMENT OF TRANSPORTATION</b>	SIGNATURE/ BLOCK:  Kleinfelder 500 Enterprise Drive, Suite 4B Rocky Hill, CT 06067	PROJECT TITLE: <b>REPAIR FACILITY</b>	TOWN: <b>ROCKY HILL</b>	PROJECT NO. <b>118-167</b>					
-	-	-	-		CHECKED BY: <b>AGB</b>					DRAWING NO. <b>CT-007</b>					
-	-	-	-		NOT TO SCALE					SHEET NO. <b>05.36</b>					
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REV.	DATE	REVISION DESCRIPTION		SHEET NO.	Plotted Date: 10/20/2014		Filename: ...\\FD_MSH_CIV_0118_0167_CT007.dgn								

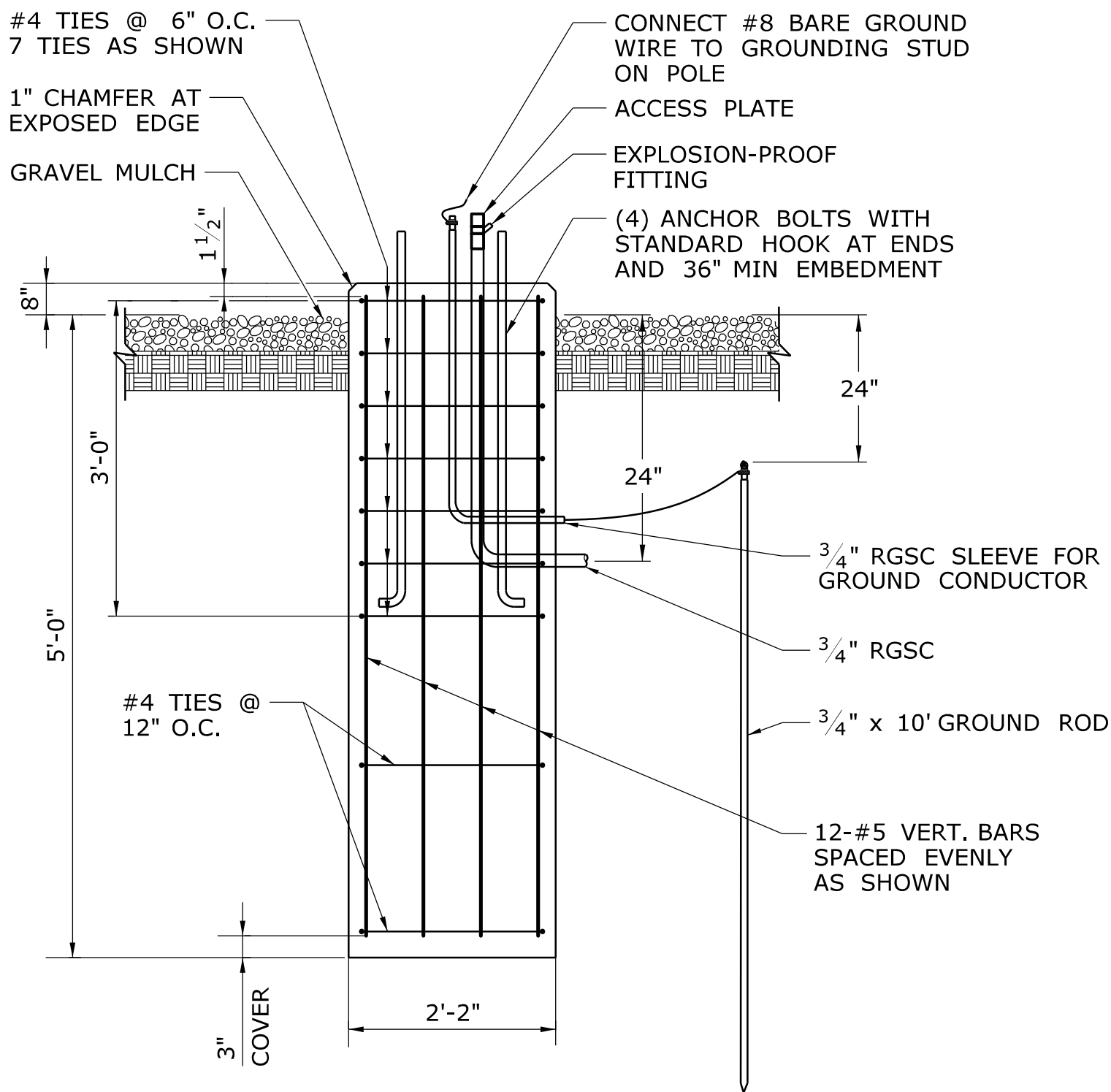




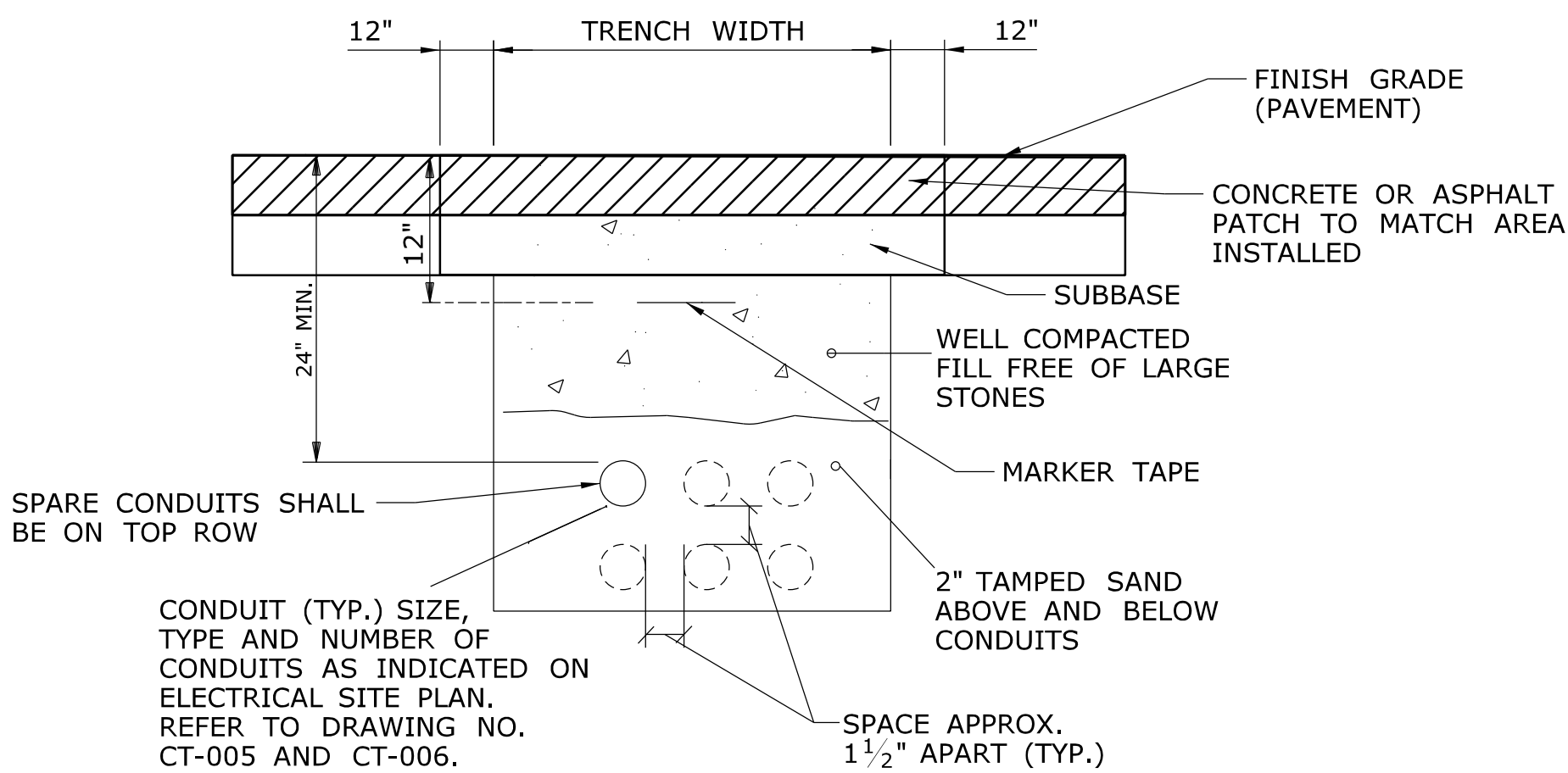
CAMERA AND ISLAND LIGHT FIXTURE DETAIL



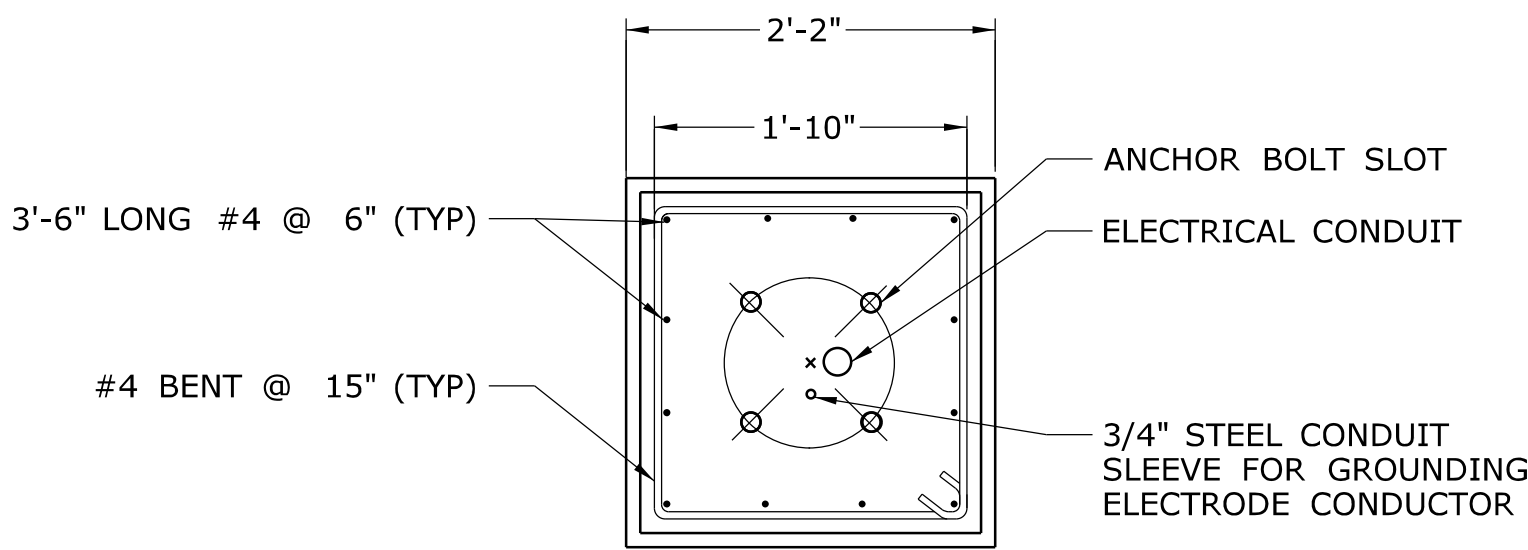
ISLAND LIGHT FIXTURE DETAIL



ISLAND LIGHT POLE FOUNDATION DETAIL

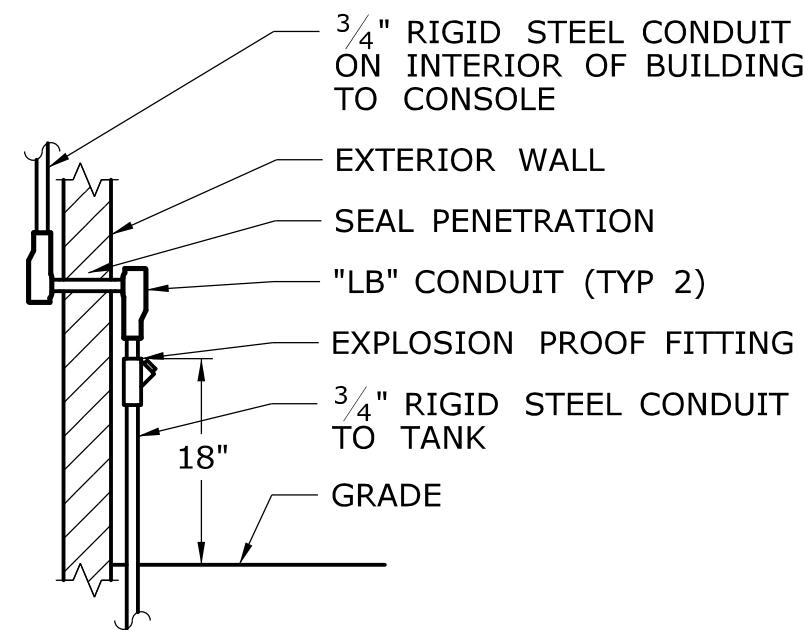


CONDUIT TRENCH DETAIL



NOTE: FACTORY SUPPLIED TEMPLATES MUST BE USED WHEN SETTING ANCHOR BOLTS, FIELD VERIFY DIMENSIONS BEFORE CONSTRUCTION.

ISLAND LIGHT POLE BASE PLATE



TANK MONITORING SYSTEM  
TYPICAL CONDUIT DROP DETAIL

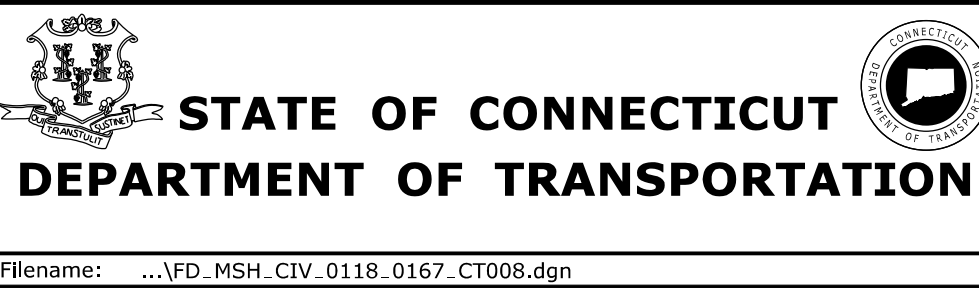
REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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DESIGNER/DRAFTER:  
**SAH**

CHECKED BY:  
**AGB**

NOT TO SCALE



SIGNATURE/  
BLOCK:

Kleinfelder  
500 Enterprise Drive,  
Suite 4B  
Rocky Hill, CT 06067

PROJECT TITLE:  
**REPAIR FACILITY**

TOWN:  
**ROCKY HILL**

DRAWING TITLE:  
**MOTOR FUEL ISLAND  
ELECTRICAL DETAILS**

PROJECT NO.  
**118-167**

DRAWING NO.  
**CT-008**

SHEET NO.  
**05.37**